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Bulletin No. 23-57

SURFACE WATER FLOW For 1957

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EDMUND G. BROWN
Governor

HARVEY O. BANKS
Director of Water Resources

February 1960

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DEPARTMENT OF WATER RESOURCES
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TIDAL CYCLE MEASUREMENTS ON THE SACRAMENTO RIVER AT SACRAMENTO

This stream gaging station, located on the left bank and 300 feet upstream from the "I" Street Bridge, is an important station within the Federal-State network of stream gaging stations dating back to November 1879 when the U. S. Weather Bureau reported gage heights only. This station contains a water stage recorder which provides a continuous record of the water surface elevation (stage).

The station is the lowest water flow measuring point on the Sacramento River before the river discharges into the Pacific Ocean. The maximum discharge for this station occurred on November 21, 1950, with a stage of 30.14 feet and a discharge of 104,000 cubic feet per second. On January 9, 1957, a telemark was installed with the recorder for transmitting instantaneous coded stage readings over a standard telephone circuit by dialing an assigned number.

During flow periods when the river discharge drops below approximately 35,000 cubic feet per second, the flow is affected by tidal influence which requires periodic tidal cycle measurements (generally monthly) with special computational procedures. During these periods personnel from both the Department of Water Resources and the U. S. Geological Survey cooperate in making a tidal cycle measurement. One measurement is made approximately each hour and 20 minutes throughout a 36-hour period, covering two and one-half tides. Four to five men usually work one or two of four nine-hour shifts, using an 18-foot outboard with a 30 horsepower motor as pictured above. Two patrol boats are also used, one upstream and one downstream from the station, to warn river traffic and to aid in raising and lowering the tag line (a steel cable, marked with regular stationing and fastened to a power winch, stretched across the 600-foot wide stream) so that traffic may pass.

Flows above 35,000 cubic feet per second are measured in the conventional manner using a stage-discharge relationship.

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STATE OF CALIFORNIA
Department of Water Resources
SACRAMENTO

February 10, 1960

Honorable Edmund G. Brown, Governor,
and Members of the Legislature
of the State of California

Gentlemen:

I have the honor to transmit herewith Bulletin No. 23-57, "Surface Water Flow for 1957." The basic data concerning water flow, diversions, utilization, and salinity is presented in this report on a regional basis in accordance with the subdivision of the State into hydrographic areas.

This report continues the publication of water flow and utilization data collected and published as part of the Sacramento-San Joaquin Water Supervision Program, as well as pertinent water supply data gathered under other current programs of the Department. Additionally, the daily mean and crest stages formerly published in "Flood Flows and Stages in Sacramento and Northern San Joaquin Valleys" are included in this report.

Very truly yours,

Harvey O. Banks

HARVEY O. BANKS
Director

FOREWORD

This report presents to the user the extensive and varied basic hydrographic data resulting from thousands of measurements and observations of surface water flow and usage.

The three predominant types of data - stream flow, diversions, and daily mean and crest stages - are presented for time periods related to their occurrence and use: viz., stream flow, for the water year (October 1, 1956, through September 30, 1957); diversions, for the period November 1, 1956, through October 31, 1957, which includes the agricultural season of the 1957 calendar year; and daily mean and crest stages, for the period November 1, 1956, through June 30, 1957, encompassing the interval of high water flows occurring in California streams.

ACKNOWLEDGMENT

A large amount of the basic data presented in this report was necessarily obtained with the cooperation and assistance of many individuals, corporations, political subdivisions, and governmental agencies. It is gratifying to receive and to acknowledge this assistance. The fact that the assistance has been whole-hearted and objective is evidence of the interest shown in the water supplies of California and the importance given to this vital commodity by these agencies.

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DIVISION OF RESOURCES PLANNING

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INTRODUCTION

General

This report of Surface Water Flow presents data for the water year ending September 30, 1957. The current data for the area covered by the reports of Sacramento-San Joaquin Water Supervision, published annually for the period 1924 through 1955, are included in the section of this report entitled Central Valley Area.

Records are presented in this volume for three of the seven major hydrographic areas of the State. These are:

North Coastal Area
Central Valley Area
Lahontan Area

It is anticipated that as the area of stream gaging activity is expanded, records for other hydrographic areas will be included.

The tabular data presented herein are shown under five general categories as follows:

1. Tables of daily mean stream flow.
2. Tables of daily mean and crest stages.
3. Tables of diversions and acreages irrigated.
4. Summary tables of categories 1 and 3.
5. Tables of supplemental information including precipitation, unimpaired runoff, and salinity.

The three plates included in this report show the following information:

Plate 1 shows the seven major hydrographic areas of the State, the location of surface water measurement stations, and by appropriate symbol the type of information obtained, and the area of measurement of diversions.

Plate 2 shows lines of maximum annual salinity encroachment in the Sacramento-San Joaquin Delta and Upper Bays.

Plate 3 shows hydrographs of reservoir operation for Shasta Lake, Folsom Reservoir, and Millerton Lake.

Programs

The information on stream flow, diversion and use of water, salinity observations, and water stages, as given in this report, is obtained in accordance with several programs of the Department of Water Resources and with cooperative agreements with other agencies.

Sacramento-San Joaquin Water Supervision Program. This program, initiated in 1924, is carried on to gather basic data relating to water supply and water utilization in the Sacramento and San Joaquin Valleys for the purpose of developing coordination between the supply and the several and varied uses of the water. Authorization for this program is provided by Sections 225 and 226 of the California Water Code.

Sacramento River Trial Distribution Program. This program, initiated in 1954, is aimed toward reaching a negotiated settlement between the local water users along the Sacramento River and in the Delta and the Bureau of Reclamation regarding their respective entitlements to the use of water and regarding provisions for a supplemental water supply.

Feather River Trial Distribution Program. The objective of this program which has been in progress since 1956, is to reach an agreement between local water users along the Feather River and the State of California regarding their respective entitlements to the use of water of this river and regarding provisions for supplemental water supplies from the Feather River Project.

Consumptive use refers to the water transpired, evaporated and used in promoting vegetative growth and to the water evaporated from soil and water surfaces adjacent to the place of use.

EXPLANATION OF TABULAR DATA

The tabular data presented herein are divided into the general categories of daily mean stream flow, daily mean and crest stages, monthly diversions, acreages irrigated, summaries of the foregoing, and supplemental information.

Stream Flow Tables

General. Stream flow station names are determined from the name of the nearest post office (Feather River at Yuba City), or a well known landmark (San Joaquin River at Fremont Ford Bridge). In order to more closely locate the station a brief narrative description is given in the footnote for each station. The mile point number represents distance above the mouth of the stream for all streams except the Sacramento River. For that stream the zero point is at the Tower Bridge in Sacramento. The letters L and R in conjunction with the mileage number represent left bank and right bank respectively, facing downstream. Additional information given in the footnotes includes the size of the drainage area, period of record, or other significant items pertaining to the station.

The stream flow tables are arranged in downstream order to facilitate the determination of the coverage of a given drainage area. Also, all stations on a tributary entering above a main stem station are listed before that station. Stations on a tributary entering between two main stem stations are listed between those stations. In order to locate a specific station, reference should be made to the Alphabetical Index of Stations or to Plate 1, showing the location of gaging stations by red wedges. Included with the tables of stream flow are tables showing reservoir contents in acre-feet.

Accuracy. All Department of Water Resources data reported herein are derived through the use of mechanical, arithmetical and empirical operations. Therefore, the results are affected by inherent inaccuracies in the procedures and equipment used. Consequently, it becomes necessary to establish limits of accuracy for which the data are reported. The following is a listing of significant figures for stream flow computation:

1. Daily flows
   - 0.0 - 9.9 — Tenths
   - 10 - 99 — 2 significant figures
   - 100 up — 3 significant figures
2. Means
   - 0.0 - 99.9 — Tenths
   - 100 - 999 — 3 significant figures
   - 1000 up — 4 significant figures

The instantaneous maximum flows usually represent values in the extreme high range of the rating curve and are therefore reported only to a maximum of three significant figures. The calendar and water year totals are reported to a maximum of four significant figures.

Content. The stream flow tables show daily mean flow in second-feet and monthly mean flow in second-feet and acre-feet. At the bottom of the table are given the peak instantaneous discharges in second-feet with dates of occurrence for the year and of record, and the total runoff in acre-feet for the water year and calendar year ending December 31, 1956.

Daily Mean and Crest Stage Tables

General. Two types of information are presented on stage, the height of water surface: (1) daily maximum and minimum tidal stages, presented for those areas subject to tidal action, as in the

Delta Area; (2) daily mean gage height, or an average of one or more daily staff gage or wire weight gage readings, presented for those areas beyond tidal influence. Of the 107 stations for which daily stages are presented in this report, sixty-six have computed daily mean flow included in the stream flow tables. The remaining forty-one stations, reported for stage only, have their locations shown on Plate 1 by blue wedges.

Actual measurements are included for those stations which do not have computed daily mean flows to provide an approximate stage-discharge rating of the station. Crest stages are included for historical reference, flood control levee maintenance, flood frequency studies, and actual design of hydraulic structures. To include pertinent data and avoid unnecessary information, a maximum of twelve crest stages is reported for any one station.

Accuracy. Gage heights are read in the field or interpolated from recording charts and reported as daily means to the tenth of a foot.

Content. Daily mean stages for each day of the month from November 1 through June 30 are tabulated in the main body of the table. Stations subject to tidal action, like Sacramento River at Sacramento Weir, contain a combination of maximum and minimum stages and daily mean stages when the flood flow is in excess of the tidal influence. The two smaller tables following contain crest stages in feet with date and time of occurrence, and measurements with attendant gage height in feet and computed discharge in cubic feet per second. Following the tabulated data is a narrative description of the station including current and historical information.

Diversions and Acreages Irrigated Tables

General. These tables primarily show the water diverted for agricultural purposes and the acreage irrigated thereby. The small amounts diverted in some reaches for municipal and industrial use are also reported. Because the major use of water is for agriculture, the tables show the diversions during the main growing season of March through October. Use of water outside this period is shown by a footnote to the table. Some of the tables for the San Joaquin and Tule Rivers are an exception to the foregoing; these tables present tabulated data for a twelve-month period.

Accuracy. Diversions, similar to stream flow, represent a calculated quantity of water flowing for a specified period of time. However, due to intermittent utilization and measurements, diversions are reported volumetrically in acre-feet on a monthly time basis. To provide information consistent with its usage, these monthly diversions are reported to the nearest acre-foot, as are the individual water user totals for the March through October season. The totals for specific tables and reaches within a table are reported to the nearest ten acre-feet for values to ten thousand acre-feet, and beyond this amount are reported to four significant figures.

Content. The information in the diversion tables includes the name of each diverter, the location of the point of diversion indicated in miles from the mouth of the stream (except Sacramento River, measured from Tower Bridge at Sacramento) and the amount of water diverted monthly and for the season. The method of diversion, whether by gravity or pump, is indicated. The size of the pump, given in inches, refers to the inside diameter of the discharge flange on the pump scroll.

The many types of crops grown vary in quantity of water application. However, as there is a major variation for rice, amounting to about twice as much water as the average applied to the other crops, the irrigated acreage is divided into two categories of crops: namely, general and rice.

Each table shows, for a stream, the total water diverted monthly and for the season. For the larger streams, total diversions are shown by reaches. The monthly use in per cent of seasonal is the relation of the total for any month to the total for the months tabulated.

Correlative and Summary Tables

General. The tabular comparisons showing the occurrences and uses of water result in the production of distinctive types of information. The uses of these data are many. In California where various water uses, flood control, navigation, and conservation development vie for priority and are interrelated, certain summary and correlative tables are in order. These tables are essential in order to provide ready reference and comparison.

Supply and Utilization. Inherent in the consideration of water conditions is the relationship between supply and utilization. This is particularly true during years of subnormal runoff when the demand equals or exceeds the supply. For this reason, correlative tables (16, 17, and 18) bringing together supply and demand are presented for the Sacramento and San Joaquin Rivers and tributaries and the Tule River. Along with the quantity of stream flow, flow from drains, and diversions, quantities of unmeasured accretions - resulting from such factors as release from, or retention in, bank storage; evaporation; return flow; unmeasured minor tributaries; and other related factors - are shown.

These tables show quantities which vary greatly in magnitude. Therefore, for ease of use, all quantities are shown to the nearest one thousand acre-feet. If a closer analysis of a stream or reach is needed, reference should be made to the individual stream flow or diversions tables, numbers for which are shown in the column preceding the monthly figures.

Delta Service Area. The complexity of waterways, tidal action, seepage, and methods of agricultural water use (a combination of subirrigation and surface application), results in hydrologic problems which preclude normal methods of measuring supply and demand. This Area is divided into uplands and lowlands (boundaries shown on Plate 2).

The correlation of water supply and demand for the Delta Service Area is shown in Table 15. The water supply available to the Area is determined from thirteen gaging stations, listed under "Water Supply" in the table, and from rainfall on the Area. "Water Utilization" in the same table includes agricultural use within the Area, exportations through the Delta-Mendota and Contra Costa Canals, and diversions by the City of Vallejo. The agricultural use in the uplands is determined by field measurement; however, in the lowlands, because it cannot be measured directly, agricultural use is determined by unit consumptive crop usages multiplied by crop acreages. Unit consumptive use factors were derived from early experimental work at Davis by the University of California and California Extension Service. Crop acreages are determined by periodic land use surveys, the most recent of which was made in 1955.

Utilization Summations. Summaries of diversions by streams for the last 10-year period are given in Tables 192 through 202. The data are given for each month in acre-feet, cubic feet per second and the monthly percentage in relation to the seasonal total. Table 191 correlates the data in the foregoing eleven tables by showing the comparison of the average monthly percentage use for each stream for the 10-year period. Table 203 summarizes, for the Sacramento River above Sacramento, the acreages irrigated as well as diversions for the last 10 years.

Supplemental Tables

General. The supplemental tables include information directly related to the surface water program of the Department and are presented for general information purposes. The types of information given are precipitation, runoff comparisons, tide gage locations, and salinity observations.

Precipitation. Table 12 presents the monthly precipitation for the water year for several stations in the Sacramento and San Joaquin Valleys from Shasta Dam to Fresno. The stations are not necessarily representative of the rainfall in any definite watershed or area, but give a general indication of the rainfall on the Central Valley floor.

Runoff Comparisons. The relative magnitude of runoff occurring on any one stream for a given year is determined by comparing the natural or unimpaired runoff of that year with the mean runoff of the stream over a long period of years. For this report, runoff comparisons are based on percentages of average determined for the 50-year period October 1905 through September 1955. Table 14 shows the unimpaired average annual flows for major streams of the Central Valley Area, and the annual runoff in percentage of the 50-year average for each year from 1920 through 1957. Table 13 gives the monthly flow as a percentage of the 50-year average for the same streams.

Tide Gages. Table 241 lists the locations of 36 recording tide gages in the Delta channels. Locations are also shown on Plate 2.

Salinity Observations. The ebb and flow of saline waters in the Delta Area has been of concern for many years. Table 238 lists the salinity sampling stations. The stations are listed commencing with the Golden Gate as zero miles and proceeding through the Bay system to the Delta Area. The samples, when possible, are taken one and one-half hours after high tide at four-day intervals. The observed concentrations of salinity are given in Table 240. The geographical location of these stations is given on Plate 2, together with the line of maximum salinity encroachment (the line of 1000 parts of chloride per 1,000,000 parts of water) for the current water year and for other years of historical interest.

Tabular Information

Tables of stream flow, daily mean and crest stages, diversions and acreages irrigated, summaries of the detailed data, and supplemental information for the 1957 water year follow.

NORTH COASTAL AREA

NORTH COASTAL AREA

Introduction

The information relating to the North Coastal Area is meager; however, the volume and importance of the data will increase with the expanding search for knowledge as to the occurrence and use of water in an area of the State having a high water development potential.

The North Coastal Area extends for about 270 miles along the coast from the California-Oregon line south to the northern boundary of the Lagunitas Creek basin in Marin County. It ranges in width from 180 miles at the Oregon boundary to 30 miles in the southern portion. The topography of the area is predominantly mountainous, with many peaks above 6,000 feet. Mount Shasta, at elevation 14,161 feet, is the highest peak in the region. Stream flow is sustained through the summer and early fall by ground water seepage from a thick, absorptive soil mantle.

Tabular Information

On the following pages are the data for 11 gaging stations, which represent the information available for the 1957 water year in the North Coastal Area.

TABLE 1

LITTLE SHASTA RIVER NEAR MONTAGUE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1		*8.4	*9.7	3.4		51	55	39	29	9.7	4.5	3.1
2		*8.4	*9.3	4.2		44	47	38	27	9.3	4.5	2.7
3		*9.3	*8.4	2.0		39	45	37	25	9.3	4.5	3.1
4		*10	*6.1	1.0		60	43	40	25	8.4	4.5	2.7
5		*9.7	*4.9	1.4		74	45	42	24	7.9	4.2	2.7
6		*9.3	*7.9	1.2		78	44	44	24	7.4	4.2	2.7
7		*9.3	*7.9	2.7		64	36	46	22	7.4	4.2	2.7
8		*8.8	*7.9	1.6	*10	55	35	45	20	7.9	4.2	2.7
9		*8.8	*7.9	2.4		51	35	43	24	7.4	4.2	2.7
10		*8.4	*7.9	2.7		43	36	42	23	7.4	3.8	2.7
11	*4.5	*8.8	*49	4.9		64	35	43	19	7.4	3.8	2.7
12		*7.9	*40	5.6		78	34	43	14	6.5	3.8	2.7
13		*7.9	*62	10		60	33	43	11	6.5	3.8	2.7
14		*7.0	*25	7.0	*34	49	39	43	17	7.0	4.2	2.7
15		*6.5	*14	4.5	*25	42	32	41	19	7.0	4.2	2.7
16		*7.9	*13	3.1	16	40	30	39	17	7.0	4.2	2.7
17		*11	*8.4	2.7	20	36	29	39	16	6.5	3.8	2.7
18	*5.6	*10	*7.4	5.2	17	42	33	63	16	6.5	3.8	2.7
19	*4.5	*7.0	*5.2	7.0	13	51	44	65	15	6.1	3.8	2.7
20	*4.2	*9.7	*4.5	3.1	12	51	40	55	15	5.6	3.4	2.7
21	*4.2	*9.3	*3.8	4.5	13	40	33	46	14	5.6	3.4	2.4
22	*4.2	*9.7	*5.2		16	32	30	42	13	5.6	3.1	1.8
23	*4.9	*8.8	*5.2		18	30	30	40	12	5.6	3.1	1.8
24	*4.9	*8.8	*4.2		127	35	28	39	12	5.2	3.1	1.8
25	*7.0	*7.0	*3.4	*10	88	78	27	38	12	4.9	3.4	2.0
26	*12	*7.0	*3.1		144	64	28	36	11	4.9	3.4	3.1
27	*7.4	*7.9	*2.4		94	50	31	35	11	4.9	3.4	32
28	*7.0	*9.3	*2.0		64	53	36	33	11	4.5	3.4	8.8
29	*7.0	*8.4	*2.0			54	38	34	10	4.5	3.4	5.2
30	*19	*6.5	*2.4			50	41	33	9.7	4.5	4.2	4.5
31	*9.7		*1.8			57		33		4.5	3.4	
Mean	5.7	8.6	11.0	5.8	29.7	52.1	36.4	41.9	17.3	6.5	3.8	3.9
Ac-Ft	353	510	678	357	1648	3203	2166	2577	1027	402	236	234

Maximum Discharge C.F.S. For	Water Year / Year of Record	200 February 26, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year / 56-57 Water Year	13390

Station located at lat. 41° 45' 11", long. 122° 17' 58", in N.W. ¼ sec. 15, T. 45 N., R. 4 W., on right bank 12 miles northeast of Montague, 16 miles southwest of MacDoel. Drainage area is 48 square miles. Period of record September 25, 1956 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 2

SOUTH FORK SCOTT RIVER NEAR CALLAHAN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	*3.5	*34	*14	20		188	144	263	375	62	14	14
2	*3.2	*31	*14	20		166	135	266	342	61	14	14
3	*3.2	*30	*14	17		147	130	204	317	52	14	14
4	*3.2	*29	*14	15		220	137	198	303	47	12	13
5	*3.2	*29	*14	14		356	149	220	276	43	13	12
6	*3.0	*30	*15	14	*20	320	164	260	239	40	13	11
7	*3.0	*31	*15	17		300	144	292	*206	40	13	9.9
8	*3.0	*34	*15	18		279	137	292	*190	42	13	9.9
9	*3.5	*35	*15	17		375	135	270	*182	39	11	9.9
10	*5.0	*39	*15	18		270	140	242	174	35	12	9.2
11	*6.2	*40	*300	21		276	142	217	171	31	11	9.2
12	*5.8	*35	*174	22		328	137	212	171	32	11	9.9
13	*5.4	*31	*185	29	*30	245	132	212	164	32	11	9.2
14	*5.2	*28	*116	28	38	212	180	193	144	39	11	9.2
15	*5.2	*26	*84	29	34	193	144	177	125	34	11	7.2
16	*5.0	*25	*68	27	30	174	130	182	114	31	11	7.2
17	*5.0	*39	*56	24	29	161	123	212	110	28	9.2	7.2
18	*5.9	*40	*49	23	30	154	114	474	110	27	8.6	5.9
19	*7.2	*31	*43	25	29	144	108	334	116	25	9.2	5.9
20	*5.9	*26	*39	38	29	142	101	263	114	23	9.9	5.5
21	*6.6	*25	*36	30	30	132	101	229	110	22	11	5.5
22	*7.9	*24	*31	23	38	125	99	206	103	22	11	5.5
23	*9.9	*22	*32	22	197	120	101	193	99	18	11	5.0
24	*9.2	*21	*30	24	550	116	105	196	93	16	12	5.0
25	*24	*20	*28	23	386	159	108	217	87	16	11	4.6
26	*71	*19	*26	21	531	164	110	245	86	15	9.9	29
27	*32	*18	*26	20	363	152	114	282	82	18	8.6	49
28	*23	*17	*25		226	154	135	317	78	19	9.2	27
29	*22	*16	*24	*20		166	182	375	74	18	11	29
30	*101	*15	*24			152	251	363	68	16	13	22
31	*49		*23			156		386		14	14	
Mean	14.4	28.0	50.5	21.9	100	201	134	258	161	30.9	11.4	12.5
Ac-Ft	885	1666	3102	1347	5574	12390	7997	15850	9566	1898	701	744

Maximum Discharge C.F.S. For	Water Year / Year of Record		Total Discharge Ac.-Ft. For	56-Calendar Year / 56-57 Water Year	61720

Station located at lat. 41° 17' 46", long. 122° 48' 34", in S.E. ¼ sec. 20, T. 40 N., R. 8 W., on left bank 1.2 miles southwest of Callahan. Period of record October 1952 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 3

EAST FORK SCOTT RIVER AT CALLAHAN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	*5.0	*28	*18	15	20	226	133	331	295	42	2.6	11
2	*5.0	*25	*18	15	18	184	122	429	268	41	0.9	11
3	*6.0	*23	*18	14	19	141	122	271	242	36	*0.7	11
4	*5.0	*22	*17	14	20	141	141	232	219	32	0.9	11
5	*5.0	*22	*17	13	18	222	165	248	200	30	5.2	11
6	*5.0	*22	*17	12	18	181	184	306	168	28	10	10
7	*5.0	*22	*15	16	17	190	154	340	146	26	8.6	7.7
8	*5.0	*23	*15	14	19	289	144	340	130	25	8.6	6.9
9	*5.0	*23	*17	13	18	797	146	322	117	22	6.9	6.0
10	*8.0	*25	*18	15	18	326	154	252	113	17	5.2	4.3
11	*9.0	*25	*28	16	18	291	162	210	109	15	3.4	4.3
12	*9.0	*23	*29	17	18	450	160	197	103	14	2.6	3.4
13	*9.0	*22	*29	34	24	287	164	232	92	14	3.4	6.0
14	*8.0	*20	*27	30	33	216	334	206	86	17	1.7	4.3
15	*8.0	*20	*25	28	33	187	203	173	77	17	*0.6	1.7
16	*7.0	*20	*24	25	31	162	165	168	70	15	*0.6	0.9
17	*7.0	*20	*22	23	32	135	157	200	62	15	*0.3	*0.9
18	*8.0	*21	*22	21	32	128	149	822	60	13	*0.1	*0.7
19	*7.7	*19	*21	26	30	115	146	492	64	14	*0.6	*0.9
20	*8.6	*17	*20	30	33	113	141	322	64	17	5.2	*1.7
21	*8.6	*18	*20	25	38	107	130	248	60	14	5.2	*0.9
22	*9.3	*18	*17	22	47	92	126	206	58	16	6.0	*0.9
23	*11	*17	*18	23	785	86	124	170	56	14	2.6	*1.7
24	*11	*17	*18	22	2640	83	122	162	55	10	1.7	*0.9
25	*13	*16	*17	20	858	107	117	168	54	7.7	3.4	*1.7
26	*22	*15	*15	19	1370	133	113	194	54	6.0	4.3	13
27	*17	*15	*16	23	684	122	120	229	52	5.2	3.4	37
28	*15	*15	*16	21	340	128	146	264	50	4.3	6.0	26
29	*19	*15	*17	19		157	203	310	46	6.0	7.7	30
30	*56	*17	*18	20		152	248	295	43	6.9	9.3	25
31	*33	—	*17	22	—	146	—	299	—	2.6	10	—
Mean	11.3	20.2	19.5	20.2	258	197	156	279	107	17.5	4.1	8.4
Ac-Ft	697	1200	1202	1244	14340	12090	9312	17130	6373	1076	253	499

Maximum Discharge C.F.S. For Water Year — Year of Record: 4,320 February 24, 1957

Total Discharge Ac.-Ft. For 56-Calendar Year — 56-57 Water Year: 65420

Station located at lat. 41° 18' 10", long. 122° 47' 58", in S.W. ¼ sec. 16, T. 40 N., R. 8 W., on left bank at old bridge crossing north of Callahan. Period of record October 1952 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 4

ETNA CREEK NEAR ETNA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	12	34	18	18	17	150	107	172	131	19	4.4	4.0
2	12	31	17	17	17	131	102	153	115	18	4.4	3.7
3	11	29	17	17	17	110	105	129	102	17	4.3	3.6
4	12	33	17	17	17	197	115	129	97	16	4.3	3.3
5	11	40	17	17	15	295	137	159	90	14	4.3	3.2
6	10	43	17	17	13	324	150	187	75	13	4.2	3.1
7	10	46	17	17	13	290	129	194	61	12	4.2	3.0
8	11	47	17	16	12	201	115	169	58	10	4.2	3.1
9	12	47	17	16	12	201	115	146	48	9.0	4.1	2.9
10	19	52	17	16	12	150	118	126	41	8.0	4.1	3.0
11	17	48	175	16	11	156	115	112	40	8.0	4.0	2.9
12	13	41	176	15	11	159	120	112	39	8.0	4.0	2.9
13	12	39	185	16	16	126	110	118	37	8.1	4.0	2.9
14	12	32	99	14	23	107	129	105	35	8.1	4.0	2.7
15	11	29	69	14	24	93	107	95	33	8.2	4.3	2.9
16	10	31	58	14	26	79	97	102	31	8.3	4.3	3.1
17	10	65	52	14	30	69	90	123	29	8.0	4.3	3.1
18	11	46	46	14	32	63	86	310	27	7.7	4.1	3.2
19	11	36	40	17	33	60	79	183	33	7.4	4.0	3.1
20	10	32	37	20	34	63	73	150	60	7.1	4.0	3.0
21	10	29	33	17	46	60	69	123	60	6.8	3.9	2.9
22	10	27	30	17	72	55	67	107	47	6.5	4.0	2.8
23	14	26	28	17	85	50	71	95	39	6.2	3.7	2.6
24	12	24	27	17	791	51	73	95	30	5.9	3.9	2.5
25	34	23	25	17	590	115	71	105	25	5.7	3.7	2.6
26	81	21	23	17	854	118	75	118	24	5.4	3.7	4.6
27	31	20	23	17	400	107	86	137	23	5.1	3.6	16
28	23	20	21	17	205	129	120	150	22	4.9	4.6	7.8
29	41	19	20	17		153	162	150	21	4.7	5.7	6.7
30	119	18	20	17		129	183	146	20	4.4	4.4	6.1
31	46	—	19	17	—	120	—	146	—	4.4	4.1	—
Mean	21.2	34.3	44.4	16.4	122	133	106	140	49.8	8.9	4.2	3.9
Ac-Ft	1305	2039	2731	1010	6799	8154	6300	8620	2961	545	255	233

Maximum Discharge C.F.S. For Water Year — Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year — 56-57 Water Year: 40950

Station located at lat. 41° 25' 53", long. 122° 54' 57", in N.E. ¼ sec. 6, T. 41 N., R. 9 W., on left bank 2.1 miles southwest of Etna. Prior to August 14, 1957, at site 0.6 mile upstream. Flows reported previous to August 14 are considered estimated because of a dam installed downstream which caused varying degrees of backwater. Period of record September 1950 to date. Records computed by Department of Water Resources.

TABLE 5

MOFFETT CREEK NEAR FORT JONES

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1										0.6	1.3	0.6
2										0.3	1.4	0.5
3										0.4	1.4	0.5
4										0.4	1.7	0.5
5										0.5	1.3	0.7
6									*9.5	0.6	1.4	0.6
7									9.5	0.7	1.4	0.6
8									8.7	0.8	1.3	0.6
9									7.9	0.8	1.2	0.6
10									7.5	0.6	1.2	0.6
11									7.1	0.6	1.2	0.6
12									6.7	0.7	1.2	0.7
13									6.7	0.5	1.2	0.8
14									7.1	0.6	1.2	1.0
15									6.7	0.7	1.3	0.8
16									6.3	0.8	*1.3	1.0
17									6.0	0.8	*1.2	0.8
18									5.6	0.6	*1.2	0.9
19									6.0	0.5	*1.2	1.1
20									6.0	0.5	*1.2	0.8
21									5.6	0.6	0.9	0.4
22									5.2	0.7	0.7	0.4
23									4.4	1.2	0.1	0.4
24									3.7	1.2	0	0.5
25									3.0	1.2	0.2	0.6
26									2.4	1.2	0.4	1.2
27									2.2	1.2	0.5	1.1
28									1.7	1.3	0.2	1.0
29									1.9	1.3	0.4	0.5
30									1.4	1.3	0.5	0.5
31	—				=		—		—	1.7	0.6	—
Mean										0.8	1.0	0.7
Ac-Ft										49	60	41

Maximum Discharge C.F.S. For: Water Year / Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year / 56-57 Water Year

Station located at lat. 41° 38' 01", long. 122° 44' 46", in N.W. ¼ sec. 27, T. 44 N., R. 8 W., on right bank 300 feet above old highway bridge, 5.5 miles northeast of Fort Jones, 9 miles southwest of Yreka. Period of record June 6, 1957 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 6

SHACKLEFORD CREEK NEAR MUGGINSVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	6.1	47	17	20		110	*76	126	151	35	11	9.0
2	5.4	42	16	19		96	*72	109	138	34	11	8.4
3	5.4	43	16	17		84	*76	94	131	31	11	8.4
4	5.4	47	16			158	84	102	130	29	11	8.4
5	5.4	48	16			197	101	124	126	27	11	8.4
6	5.2	51	17			219	107	142	110	26	11	8.1
7	5.2	53	17			179	*88	151	104	24	10	8.1
8	5.2	51	17	*16	*19	147	82	133	96	23	10	7.9
9	5.4	48	17			151	82	111	86	21	13	7.6
10	8.7	50	17			118	86	103	81	21	12	7.6
11	9.6	45	213			118	*86	98	77	20	12	7.6
12	8.1	41	146			117	86	100	80	19	12	7.6
13	7.6	38	153	15	21	97	79	103	71	19	12	7.4
14	7.4	33	95	16	29	85	98	91	65	19	11	7.1
15	6.8	29	71	17	31	78	81	87	59	18	11	7.1
16	6.6	32	59	17	33	70	74	97	56	17	11	6.8
17	6.3	69	51		36	66	70	130	54	16	11	7.1
18	7.1	47	45		37	61	66	263	55	16	10	6.6
19	6.6	36	41		36	59	62	158	55	15	10	6.6
20	6.6	32	36		34	60	59	124	53	15	10	6.3
21	6.3	29	33		38	57	56	107	50	15	11	6.1
22	6.3	26	30		56	53	57	97	49	14	10	5.6
23	8.4	24	28		73	51	62	91	47	14	10	5.4
24	8.1	23	26	*19	234	52	62	95	47	13	9.6	5.4
25	36	21	25		192	103	63	105	46	13	9.6	5.2
26	89	21	24		343	97	66	117	45	13	9.3	15
27	38	20	23		198	84	75	136	45	12	9.3	26
28	26	19	22		136	91	97	145	44	12	9.6	15
29	49	18	21			*96	120	146	41	12	9.6	13
30	145	18	21			*88	131	148	38	12	9.3	11
31	57	—	20		=	86	—	156	—	11	9.0	—
Mean	19.3	36.7	43.5	17.7	62.7	101	80.1	122	74.3	18.9	10.6	8.7
Ac-Ft	1188	2184	2676	1091	3481	6204	4768	7515	4423	1162	649	515

Maximum Discharge C.F.S. For. Water Year / Year of Record 441 February 26, 1957

Total Discharge Ac.-Ft. For 56-Calendar Year / 56-57 Water Year 35860

Station located at lat. 41° 35', long. 123° 00', T. 43 N., R. 10 W., on left bank 3 miles northwest of Mugginsville, 7 miles west of Fort Jones. Drainage area is 18 square miles. Period of record October 1950 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 7

CANYON CREEK NEAR KELSEY CREEK GUARD STATION

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	7.0	59	24	33		210	118	203	260	50	14	7.0
2	6.6	51	23	31		180	112	182	233	47	13	7.0
3	6.3	47	23	29		161	114	155	220	46	13	6.6
4	6.3	49	23	28		*246	120	163	220	43	13	6.6
5	6.3	51	22	27		299	133	206	213	42	13	7.0
6	6.3	52	*22	27	*24	*339	137	241	178	38	13	6.6
7	6.0	56	*23	27		326	126	257	165	36	12	6.6
8	6.0	58	*23	26		*268	120	228	149	33	12	6.3
9	6.0	57	*23	27		*249	120	198	131	31	11	6.3
10	10	63	55	27		203	126	185	122	30	11	6.0
11	13	58	307	26		*246	128	176	115	28	11	6.0
12	9.6	52	210	25		244	133	182	126	27	11	5.7
13	8.8	48	231	27	25	187	128	187	110	29	10	5.7
14	8.3	43	139	26	34	159	149	159	94	29	10	5.3
15	7.9	40	104	27	31	147	130	147	84	27	10	5.0
16	7.6	42	88	25	30	133	120	159	77	25	9.6	5.0
17	7.3	80	78	25	31	124	114	192	76	22	9.6	5.0
18	8.3	61	68	24	33	117	109	406	80	21	9.2	5.0
19	7.9	49	63	32	34	114	104	251	81	21	8.8	5.0
20	7.6	43	58	37	35	114	98	201	77	21	8.3	5.0
21	7.6	39	54	31	44	107	94	172	74	20	8.3	5.0
22	7.6	38	50		73	101	94	157	70	19	8.3	4.7
23	11	35	47		99	99	96	145	69	19	7.9	4.5
24	8.3	33	45		345	96	96	153	70	18	7.3	4.5
25	34	31	42		326	96	96	167	68	18	7.0	4.2
26	139	30	39	*24	570	96	98	189	66	17	7.0	9.2
27	54	28	38		378	106	107	231	66	16	7.0	27
28	34	28	38		260	124	133	246	64	16	7.9	17
29	66	26	37			143	174	254	58	15	8.8	14
30	234	25	36			131	203	260	54	14	7.3	12
31	82	—	34		—	133	—	271	—	14	7.3	—
Mean	26.8	45.7	66.7	26.7	94.1	171	121	204	116	26.8	9.9	7.4
Ac-Ft	1647	2721	4100	1640	5228	10510	7200	12540	6883	1650	608	438

Maximum Discharge C.F.S. For Water Year: 650 February 26, 1957
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year
56-57 Water Year: 55160

Station located at lat. 41° 37' 42", long. 123° 06' 17", in S.W. ¼ sec. 27, T. 44 N., R. 11 W., on left bank 1.5 miles south of Kelsey Creek Guard Station, 15 miles west of Fort Jones. Drainage area is 25 square miles. Period of record October 1950 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 8

WEAVER CREEK NEAR DOUGLAS CITY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1					13	126	74	90	68	13	6.1	1.7
2					12	98	68	108	65	12	4.4	1.7
3					12	106	66	81	61	12	3.4	2.1
4					12	305	68	75	56	11	3.4	2.1
5					12	424	69	75	53	9.9	4.1	2.5
6					13	332	70	78	50	10	4.4	2.5
7					14	231	65	80	46	9.5	4.1	1.9
8					18	180	62	86	43	9.0	3.7	1.9
9					21	189	62	82	41	9.0	3.7	1.7
10					21	153	59	75	37	9.0	3.7	1.7
11				*28	19	173	61	80	36	8.0	3.4	1.5
12				*31	18	351	58	70	33	7.1	3.4	1.3
13				*42	28	203	61	72	31	8.0	3.0	1.1
14				59	44	159	93	66	30	9.5	2.5	1.1
15				*53	43	155	68	62	29	8.5	2.3	1.1
16				*53	40	147	69	59	27	8.0	2.3	1.3
17				*42	36	153	82	74	25	6.6	2.1	1.3
18				*42	34	133	99	193	23	6.6	2.1	1.5
19				*31	31	119	81	133	22	7.1	2.1	1.7
20				*31	34	110	78	119	21	6.1	1.9	1.9
21				*31	76	104	72	112	20	6.1	1.9	1.5
22				*23	80	92	66	101	20	6.1	1.9	1.5
23				*23	171	81	63	93	18	5.8	1.7	1.3
24				*16	726	72	63	86	17	5.4	1.5	1.1
25				*16	594	75	61	82	16	5.4	1.3	1.1
26				13	606	74	59	80	15	5.1	1.3	3.0
27				9.9	298	68	59	80	15	4.7	1.3	10
28				13	177	75	62	78	14	4.4	1.3	9.5
29				13		87	66	80	13	4.1	1.3	9.0
30				13		75	69	75	14	4.4	1.7	9.0
31		—		13	—	82	—	70	—	6.6	1.7	—
Mean					114	153	68.4	86.9	32.0	7.7	2.7	2.7
Ac-Ft					6353	9386	4072	5345	1902	472	165	160

Maximum Discharge C.F.S. For Water Year
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year
56-57 Water Year

Station located at lat. 40° 40' 13", long. 122° 56' 33", in S.E. ¼ sec. 36, T. 33 N., R. 10 W., on left bank on downstream side of old bridge site, 1200 feet downstream from highway 299W bridge, 1.2 miles north of Douglss City, 4.2 miles south of Weaverville. Drainage area is 48 square miles. Period of record January 11, 1957 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 9

BROWNS CREEK NEAR DOUGLAS CITY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1						203	120	95	72	27	8.6	6.8
2						154	112	151	69	26	8.0	7.0
3					*24	139	104	121	66	24	8.6	6.1
4						161	100	107	62	24	8.3	5.7
5						278	95	100	59	21	8.3	6.1
6					*25	275	90	95	57	18	8.8	6.4
7					26	256	84	89	56	19	8.8	6.4
8				*18	27	228	78	107	53	20	8.3	6.1
9				15	27	249	73	161	51	20	8.3	4.9
10				15	25	226	9	178	47	16	8.0	4.9
11				21	24	209	67	216	46	16	8.3	4.5
12				27	24	285	66	197	45	16	8.3	4.4
13				81	31	251	65	180	43	18	7.8	4.0
14				68	50	224	120	156	44	21	7.8	4.2
15				81	55	233	92	138	43	18	7.8	4.9
16				57	52	258	88	123	41	16	8.0	4.5
17				43	51	251	121	126	40	16	7.8	4.9
18				37	47	224	249	263	37	15	7.5	5.1
19				35	42	211	251	249	36	15	7.0	5.1
20				40	43	213	222	222	37	14	5.9	5.1
21				34	81	207	193	203	37	14	5.9	5.7
22				32	86	189	170	180	38	14	6.1	5.5
23				30	513	168	149	158	35	13	6.4	4.9
24				28	1190	154	133	146	34	12	6.4	5.3
25				27	604	151	117	127	34	11	5.7	5.3
26				*22	405	156	104	111	33	9.7	5.5	6.8
27					319	148	95	99	32	9.7	4.9	37
28					251	139	90	94	30	9.4	5.5	23
29				*24		149	86	88	29	7.8	5.9	23
30						135	79	82	27	8.0	6.4	25
31		—			—	132	—	76	—	8.0	6.8	—
Mean					147	202	116	143	44.4	16.0	7.3	8.3
Ac-Ft					8168	12410	6906	8803	2644	985	446	493

Maximum Discharge C.F.S. For: Water Year — Year of Record 1,530 February 24, 1957 | Total Discharge Ac.-Ft. For 56-Calendar Year — 56-57 Water Year

Station located at lat. 40° 38 35", long. 122° 58' 46", in S.E. $\frac{1}{4}$ sec. 10, T. 32 N., R. 10 W., on right bank on downstream side of a private bridge crossing Browns Creek 2.1 miles west of Douglas City. Drainage area is approximately 71 square miles. Period of record January 8, 1957 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 10

NORTH FORK TRINITY RIVER AT HELENA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1					90	1150	741	636	673	214	55	28
2					86	916	703	611	604	186	54	26
3					85	789	738	490	566	175	50	26
4					86	1170	761	465	545	161	50	26
5					89	2490	781	535	545	162	51	26
6					90	2320	769	643	468	155	52	25
7					101	1930	647	669	429	143	49	25
8					123	1480	579	629	411	134	47	24
9					129	1480	555	549	378	130	46	23
10					127	1210	545	500	337	135	44	22
11					124	1240	529	474	335	132	44	21
12					123	2130	519	456	359	126	43	21
13					211	1530	481	481	337	129	40	21
14					397	1200	814	462	283	150	39	20
15					386	1070	643	426	246	129	37	20
16					406	1000	572	429	229	114	36	20
17					447	898	539	550	235	102	35	21
18					447	789	512	2240	255	95	34	20
19					403	738	487	1450	266	89	32	19
20					392	726	465	1130	259	86	31	18
21					525	673	438	978	253	81	31	17
22					621	600	420	847	244	77	31	15
23					1420	503	411	726	242	73	30	14
24				*111	4260	493	406	654	246	73	29	13
25				105	3160	625	394	639	246	72	30	13
26				91	4610	714	389	647	255	70	29	20
27				76	2640	673	400	695	266	68	29	240
28				98	1580	695	465	703	271	66	29	161
29				94		777	566	722	255	65	30	134
30				91		749	611	703	227	61	30	118
31		—		85	—	745	—	699	—	57	28	—
Mean					827	1081	563	704	342	113	38.5	39.9
Ac-Ft					45930	66450	33480	43320	20360	6962	2370	2374

Maximum Discharge C.F.S. For Water Year — Year of Record | Total Discharge Ac.-Ft. For 56-Calendar Year — 56-57 Water Year

Station located at lat. 40° 46' 56", long. 123° 07' 39", in S.W. $\frac{1}{4}$ sec. 21, T. 34 N., R. 11 W., on right bank 0.6 mile north of Helena, 1.0 mile above mouth. Period of record January 24, 1957 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 11

BIG CREEK NEAR HAYFORK

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1						92	83	43	31	6.3	0	0.5
2						79	82	51	30	6.4	0.4	0.4
3						75	77	43	28	6.3	0.3	1.1
4						94	75	40	27	6.3	0.4	0.7
5						159	69	39	26	6.4	0.4	1.1
6					*9.3	151	68	39	25	6.2	0.7	1.3
7					10	130	61	43	24	6.1	1.6	0.8
8					*11	110	59	42	22	5.0	0.9	0
9					*10	100	54	40	21	4.5	2.6	0
10					10	88	46	40	21	3.6	2.9	0
11					9.8	91	44	41	21	3.2	1.1	0
12					10	149	42	44	21	3.5	1.5	0
13					15	123	41	45	21	3.4	0.7	0
14					27	105	68	43	20	3.4	1.4	0
15					34	116	56	40	19	3.5	1.1	0
16					40	102	56	37	18	3.4	1.9	0
17					41	94	60	39	17	2.8	2.5	0.1
18					38	83	68	73	16	2.6	2.8	0
19					32	76	66	73	14	1.8	3.3	0
20					32	76	64	72	15	1.9	2.0	0.1
21					46	77	61	71	14	2.5	2.4	0
22					53	73	59	68	13	1.3	1.8	0.1
23					107	72	56	63	9.8	1.6	1.1	0
24					305	69	*53	56	8.2	3.2	0.5	0.6
25					213	72	*40	51	7.4	5.5	1.3	0.5
26					218	79	40	46	7.2	0.2	2.4	2.3
27					168	79	38	38	6.7	0.1	2.3	12
28					116	79	38	36	6.2	0.1	1.9	9.8
29						88	36	35	5.8	0	1.8	8.1
30						86	35	34	6.1	0	1.2	8.5
31		—			—	86	—	32	—	0	1.1	—
Mean						95.2	56.6	47.0	17.4	3.3	1.5	1.6
Ac-Ft						5857	3362	2890	1034	200	92	95

Maximum Discharge C.F.S. For	Water Year	Year of Record	Total Discharge Ac.-Ft. For	56-Calendar Year	56-57 Water Year

Station located at lat. 40° 33' 11", long. 123° 08' 35", in S.E. ¼ sec. 7, 31 N., R. 11 W., on right bank 30 feet above highway bridge, 2 miles east of Hayfork. Drainage area is approximately 27 square miles. Period of record February 6, 1957 to date. Records computed by Department of Water Resources.

* Estimated

CENTRAL VALLEY AREA

CENTRAL VALLEY AREA

Introduction

The Central Valley Area is the locale of five important hydrologic features that focused early attention on the need for gathering basic data of water occurrence and utilization. These features are:

1. The existence of the two largest river systems in the State, namely the Sacramento and San Joaquin Rivers.
2. The occurrence and development of the extensive agricultural lands contiguous to these river systems.
3. The complexities of the Delta channels at the confluence of these two river systems.
4. The climatic conditions which result in low flows during much of the agricultural season and, in dry years, critical water shortages.
5. The intrusion of saline waters into the Delta Area during periods of low stream flows.

The gathering of basic data necessary for determining the best use of water resources has continued through several programs. The three major programs under which data in this report have been gathered are Sacramento-San Joaquin Water Supervision, Trial Distribution, and California Water Development. The development of the Central Valley Project and the accelerated participation of the State in water development construction have increased and broadened the need for, and the value of, data on surface water flow.

Sacramento-San Joaquin Water Supervision Program

General. This is the oldest of the basic data gathering programs and, although primarily concerned with water utilization (diversions), information on stream flow and irrigated acreages is also obtained.

History. The exceptionally dry year of 1924 emphasized the necessity of knowing how much water was available and how it was being used along the Sacramento and San Joaquin Rivers. In that year the State was asked by the water users, through the Permanent Committee of the Sacramento-San Joaquin River Problems Conference, to gather data on water supply and demand. A parallel task was that the State would make recommendations for action, to the committee, when acute water shortages were anticipated.

During the early years, this program was financially supported to a large extent by contributions from the water users. Since about 1944, State funds have been made available through budgetary channels by the Legislature and through cooperative arrangements with federal and local agencies.

The geographical area of activity, during the early years of this program, was confined to the main stems of the Sacramento and San Joaquin Rivers. As the data usage was expanded, the program likewise increased through the years. Most of the tributary streams throughout the entire Sacramento-San Joaquin Valley, including much of the foothill area, are now reported upon. This coverage encompasses both measurements of stream flow and measurements of diversions.

Trial Distribution Programs

General. The Central Valley Project, constructed and operated by the U. S. Bureau of Reclamation, has changed the picture of water supply and utilization in the Sacramento and San Joaquin Valleys. Through storage and regulation more water has been made available during the period of normally low runoff, which period coincides with the period of high agricultural demand. This change has ameliorated some problems, created others, and realigned consideration of still others.

Sacramento River Trial Distribution Program. The completion in 1943 of Shasta Dam on the upper Sacramento River has markedly changed the flows of that stream during flood seasons and low flow periods. In addition to other benefits, the regulation of the flow has provided water to: (1) aid navigation;

(2) reduce the encroachment of saline waters into the Delta Area; and (3) improve diversions during the agricultural season.

This improved water supply has not been accomplished without concomitant problems. In order to arrive at a solution to the difficult water rights problems of users along the Sacramento River below Keswick and along the Delta channels, an agreement entered into in July 1952, between the Bureau of Reclamation, the State of California, and the Sacramento Valley Water Users Committee, provided for the accumulation and study of data of water supply and use. The information gathered under this agreement was used as a basis, in 1954, for entering into the "Sacramento River and Delta Trial Distribution Agreement for 1955." The parties to this agreement were the Bureau of Reclamation, the State, and the Sacramento River and Delta Water Association (formed as successor to the Sacramento Valley Water Users Committee in order to include water users in the Delta). This agreement provided for testing of trial diversion schedules in order to develop a comprehensive schedule satisfactory to all interests. Studies under this program are being continued.

American River Trial Distribution Program. Operation of Folsom Reservoir on the American River was started in 1955. In order to gather data needed for a solution of anticipated water rights problems, a trial distribution program for this stream below Nimbus Dam was initiated in 1956.

Feather River Trial Distribution Program. In anticipation of the upstream development of this stream system by the State of California, a trial water distribution program covering the valley floor areas of the Feather and Yuba Rivers has been initiated in order to accumulate data on water supply and utilization for use in operating the Feather River Project.

California Water Planning Program

In connection with the activities of the Department's California Water Planning Program, surface water measurements include the collection of stream flow data at specified locations for studies of water development.

Tabular Information

On the following pages are tables of stream flow, diversions and acreages irrigated, summaries of the foregoing, and supplemental information for the 1957 water year.

TABLE 12

MONTHLY PRECIPITATION
OCTOBER 1956 THROUGH SEPTEMBER 1957

In inches

Station		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
Shasta Dam	1956-57	4.87	.47	.20	8.57	15.18	7.31	4.34	5.29	.07	.00	.00	6.14	52.44
	Average	3.87	5.92	9.93	10.42	10.69	6.38	4.22	2.15	1.38	.19	.16	.59	55.90
Redding Fire Station 2	1956-57	4.79	.44	.30	5.41	7.57	5.81	1.72	3.05	.11	.01	.00	3.84	33.05
	Average	1.96	4.07	6.73	7.41	6.30	4.79	2.76	1.63	1.01	.11	.10	.58	37.45
Red Bluff Airport	1956-57	.50	.08	T	3.56	1.92	2.61	1.61	1.67	.01	T	.00	2.47	14.43
	Average	1.04	2.11	3.74	3.78	2.98	2.56	1.37	.87	.43	.03	.06	.44	19.41
Orland	1956-57	.45	.12	T	4.27	2.96	1.77	1.53	1.35	.02	.00	.00	2.71	15.18
	Average	.86	1.81	3.60	3.57	3.02	2.40	1.28	.56	.35	.02	.04	.32	17.83
Chico Experiment Station	1956-57	1.54	.04	.07	4.74	3.86	2.60	1.57	1.80	.02	.00	.00	2.82	19.06
	Average	1.20	2.62	4.96	5.02	4.38	3.29	1.91	1.03	.44	.02	.05	.40	25.32
Colusa	1956-57	.81	.11	.02	2.77	2.51	1.10	1.20	.79	.00	.00	.00	1.36	10.67
	Average	.68	1.64	3.14	3.06	2.73	2.13	1.02	.50	.21	.01	.02	.23	15.37
Marysville	1956-57	2.08	.11	.19	3.53	4.99	1.95	1.59	1.49	T	.00	.00	1.80	17.73
	Average	.94	2.16	3.99	4.05	3.63	2.88	1.42	.76	.24	.00	.02	.23	20.32
Woodland	1956-57	.88	.10	.12	2.40	3.72	1.26	1.00	1.21	.00	.00	.00	.93	11.62
	Average	.67	1.56	3.24	3.54	2.96	2.21	1.11	.49	.17	.00	.01	.20	16.16
Folsom Dam	1956-57	2.01	T	.42	2.82	4.03	4.33	2.54	3.99	.00	.00	.00	.55	20.69
	Average	1.02	2.30	4.24	5.04	4.34	3.57	1.76	.84	.25	.01	.01	.25	23.63
Sacramento City	1956-57	1.32	.06	.22	2.47	4.18	2.23	1.66	1.78	T	.00	.00	1.35	15.27
	Average	.79	1.67	3.48	3.87	3.31	2.59	1.32	.59	.19	.00	.02	.22	18.05
Davis	1956-57	1.32	.07	.17	2.07	3.67	1.26	1.18	1.78	.00	.00	.00	.60	12.12
	Average	.65	1.50	3.29	3.67	3.00	2.28	1.14	.49	.16	.00	.01	.18	16.37
Bensons Ferry	1956-57	1.28	.08	.31	2.43	2.73	1.97	1.68	*1.74	.00	.00	.00	.39	*12.61
	Average	.68	1.41	2.83	3.20	2.63	2.28	1.12	.58	.15	.00	.00	.20	15.08
Lodi	1956-57	1.74	.04	.39	2.84	2.53	2.02	2.43	2.11	.59	T	.00	.19	14.88
	Average	.79	1.50	3.14	3.39	2.74	2.43	1.20	.58	.13	.00	.00	.19	16.09
Antioch	1956-57	.60	.05	.12	1.94	3.62	1.34	1.03	1.20	T	T	.00	.07	9.97
	Average	.51	1.15	2.62	2.79	2.23	1.81	.78	.36	.11	.01	.01	.21	12.59
Stockton Fire Station 4	1956-57	.95	.02	.32	2.52	2.59	1.91	2.13	1.49	.24	.00	.00	.16	12.33
	Average	.60	1.31	2.68	3.03	2.33	2.11	.99	.53	.12	.01	.00	.20	13.91
Tracy Carbona	1956-57	.05	.00	.20	1.54	1.72	1.96	.93	1.75	.11	.00	.00	.31	8.57
	Average	.39	.78	1.65	1.81	1.46	1.37	.66	.41	.10	.00	.00	.13	8.76
Modesto	1956-57	.49	.01	.23	2.10	2.06	1.17	.81	1.43	.05	T	.00	.20	8.55
	Average	.50	1.02	2.31	2.29	1.99	1.97	.93	.45	.11	.01	.02	.16	11.76
Merced Fire Station 2	1956-57	.32	.00	.19	2.02	1.45	1.10	.76	1.32	.06	.00	.00	.14	7.36
	Average	.47	1.15	2.03	2.46	2.12	1.99	1.03	.44	.08	.01	.01	.12	11.91
Los Banos	1956-57	.24	T	.16	1.77	1.32	1.66	.80	1.16	.16	.00	.00	.07	7.34
	Average	.38	.83	1.56	1.80	1.43	1.44	.73	.30	.05	.01	.01	.10	8.64
Fresno Airport	1956-57	1.00	.00	.31	1.75	1.51	.53	1.38	1.56	.16	T	.00	.19	8.39
	Average	.51	.80	1.63	1.90	1.61	1.68	.87	.32	.11	.01	.01	.08	9.53

T - Trace
* - Estimated

1956-57 records from U. S. Weather Bureau. Averages are based on the 50-year period 1905-1955.

TABLE 13

MONTHLY RUNOFF
SACRAMENTO-SAN JOAQUIN RIVER SYSTEM
October 1956 through September 1957

In per cent of average*

Month		Sacramento and San Joaquin Rivers to Delta (a)	Sacramento River near Red Bluff	Sacramento River at Sacramento (a)	Feather River near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River near Mokelumne Hill	Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (a)
October 1956	Per Cent	143	137	144	164	157	159	170	177	160	140	135	147
	Average	467	274	412	87	28	22	4	8	15	7	21	51
November 1956	Per Cent	72	79	74	81	59	48	52	64	62	76	79	66
	Average	850	408	727	164	80	75	17	22	39	17	28	107
December 1956	Per Cent	40	45	41	41	29	34	40	30	39	26	30	34
	Average	1532	715	1312	298	152	147	29	41	66	34	50	191
January 1957	Per Cent	33	38	34	33	27	25	29	25	35	23	41	32
	Average	2392	1091	2042	443	238	270	43	68	105	60	74	307
February 1957	Per Cent	93	87	99	125	112	89	98	97	96	54	72	77
	Average	2871	1280	2418	535	282	321	57	87	136	80	93	397
March 1957	Per Cent	104	119	115	107	117	110	100	81	76	54	59	69
	Average	3285	1209	2609	665	332	404	85	137	196	110	147	590
April 1957	Per Cent	62	77	66	55	62	62	68	64	61	58	60	61
	Average	3813	1034	2760	816	417	492	136	215	295	155	251	917
May 1957	Per Cent	73	134	72	92	110	104	88	94	86	80	75	83
	Average	4070	720	2427	717	444	546	201	300	454	250	438	1442
June 1957	Per Cent	89	97	90	77	91	92	92	87	101	92	106	99
	Average	2702	474	1390	358	240	319	138	199	382	190	404	1174
July 1957	Per Cent	74	98	88	86	70	66	28	71	46	42	70	60
	Average	1093	326	625	153	62	83	31	62	133	59	184	438
August 1957	Per Cent	89	103	100	99	82	90	17	21	39	42	64	45
	Average	514	266	410	99	24	20	4	14	23	12	52	100
September 1957	Per Cent	140	131	150	120	86	75	100	0	65	6	75	55
	Average	411	252	367	80	21	14	2	6	10	5	21	41
Seasonal 1956-57	Per Cent	80	89	85	82	84	80	80	75	77	66	77	75
	Average	24000	8049	17499	4415	2320	2713	747	1159	1854	979	1763	5755

* Averages considered as mean values in thousands of acre-feet for 50-year period October 1905 through September 1955.

a Figures computed from summations of unimpaired flow at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

TABLE 14

SEASONAL RUNOFF
SACRAMENTO-SAN JOAQUIN RIVER SYSTEM

In per cent of average*

Water Year Ending September 30	Sacramento and San Joaquin Rivers to Delta	Sacramento River near Red Bluff	Sacramento River at Sacramento	Feather River near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River near Mokelumne Hill	Stanislaus River below Melonea P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis
Average Annual Runoff* Thous. Ac.-Ft.	a 24000	8049	a 17499	4415	2320	2713	747	1159	1854	979	1763	a 5755
1920	57	52	52	50	56	54	63	64	73	70	75	71
1921	128	143	136	137	137	118	117	109	109	103	91	102
1922	111	83	103	115	128	121	124	123	134	146	134	134
1923	81	66	76	70	89	101	95	97	96	96	94	96
1924	31	41	33	29	26	20	25	22	29	26	25	26
1925	93	100	92	71	91	100	112	106	104	93	82	96
1926	65	70	68	72	69	51	50	52	60	62	66	61
1927	131	136	137	132	153	135	120	118	111	111	114	113
1928	91	95	96	96	105	93	86	82	82	75	66	76
1929	48	55	48	42	43	42	46	44	53	50	50	50
1930	72	76	77	88	78	61	62	63	62	52	50	57
1931	33	41	35	33	28	26	28	27	32	27	28	29
1932	85	63	75	74	91	96	100	117	114	114	117	115
1933	53	57	51	43	46	47	57	52	60	53	63	58
1934	47	56	49	46	43	41	40	37	44	37	40	40
1935	99	93	95	96	97	95	94	105	114	120	110	112
1936	103	88	99	97	112	125	120	114	117	118	106	113
1937	86	74	76	71	80	86	93	96	108	124	125	113
1938	184	182	181	193	174	166	166	176	185	212	209	195
1939	48	54	47	42	39	39	45	45	53	49	53	51
1940	124	130	128	127	123	126	115	121	120	112	107	115
1941	150	178	155	147	138	116	113	115	135	148	150	138
1942	140	140	144	150	147	144	132	128	128	131	128	128
1943	122	106	121	127	135	143	134	135	128	132	116	126
1944	61	58	59	63	60	54	60	58	71	70	68	67
1945	93	82	86	85	91	93	104	110	113	112	121	115
1946	100	100	100	94	103	106	100	102	102	96	98	100
1947	59	63	59	57	59	52	53	55	59	58	64	59
1948	86	95	90	87	87	83	85	77	76	70	69	73
1949	68	75	68	59	64	68	69	64	68	65	66	66
1950	83	71	82	87	96	98	101	93	84	73	74	81
1951	131	113	131	128	153	171	155	146	134	124	105	126
1952	164	143	163	179	178	183	177	165	165	160	173	167
1953	104	120	115	117	110	98	91	83	83	63	67	75
1954	92	115	100	95	83	74	71	77	78	68	72	74
1955	62	70	63	56	55	58	59	59	61	54	66	61
1956	171	164	171	180	171	172	167	162	178	172	173	171
1957	80	89	85	82	84	80	80	75	77	66	77	75

* 50-year average taken as mean seasonal unimpaired flow October 1905 through September 1955.
a Summation of unimpaired flow at foothill stations on major tributaries only, and does not include runoff from minor tributaries and from valley floor.

TABLE 15

SUMMARY OF MONTHLY WATER SUPPLY AND UTILIZATION
SACRAMENTO-SAN JOAQUIN DELTA
OCTOBER 1956 THROUGH OCTOBER 1957

Item	Record in Table No.	Quantities in Thousands of Acre-Feet												
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total	1957 Oct.
WATER SUPPLY															
Measured Inflow		911	1043	970	891	1332	3968	1338	2205	1331	638	656	811	16094	1279
Sacramento River at Sacramento	111	762	868	769	740	992	3065	1190	1905	999	574	599	727	13190	1120
Sacramento Weir	104	0	0	0	0	1	6	0	0	0	0	0	0	7	0
Yolo Bypass near Woodland	115	1	0	1	3	193	499	3	54	5	1	2	3	765	11
Putah Creek near Davis	117	0	0	0	1	2	1	1	1	0	0	0	0	6	1
Cosumnes River at McConnell	173	1	3	3	6	32	93	32	49	14	1	0	0	234	1
Dry Creek near Galt	171	0	0	0	0	7	27	4	6	0	0	0	0	44	0
Mokelumne River at Woodbridge	170	23	40	42	20	7	53	28	29	87	6	8	13	356	19
Bear Creek near Lockeford	166	0	0	0	1	0	2	0	0	0	0	0	0	3	0
Calaveras River near Stockton	163	0	0	0	1	0	4	0	0	1	1	0	0	7	0
Stockton Diverting Canal at Stockton	165	0	0	1	1	0	21	0	0	0	0	0	0	23	0
Duck Creek near Stockton	160	0	0	0	0	0	1	0	0	0	0	0	0	1	0
French Camp Slough near French Camp	158	1	0	0	0	0	8	1	3	1	1	1	0	16	1
San Joaquin River near Vernalis	155	123	132	154	118	98	188	79	158	224	54	46	68	1442	126
Precipitation (a)		48	2	12	113	158	82	64	90	0	0	0	14	583	76
Total Water Supply		959	1045	982	1004	1490	4050	1402	2295	1331	638	656	825	16677	1355
WATER UTILIZATION															
Consumptive Use in Delta Lowlands Area		93	43	33	23	27	36	86	125	140	195	215	159	1175	93
Exportations		45	7	6	5	59	111	141	135	197	222	197	120	1245	69
Delta-Mendota Canal	235	40	4	3	2	56	108	136	130	189	213	188	112	1181	64
Contra Costa Canal	235	4	3	3	3	3	3	4	4	6	7	7	7	54	4
City of Vallejo	235	1	0	0	0	0	0	1	1	2	2	2	1	10	1
Delta Uplands Diversions		20	3	6	2	3	4	50	39	69	83	71	41	391	10
Old San Joaquin River	223	4	0	0	0	2	2	20	14	23	26	23	14	128	2
Tom Paine Slough	223	1	0	1	1	0	1	3	2	4	4	5	3	25	1
San Joaquin River (Stockton to Vernalis)	224	3	1	1	0	1	1	17	9	15	18	16	8	90	2
French Camp Slough below French Camp	223	0	0	0	0	0	0	0	0	1	1	0	0	2	0
Calaveras River below Stockton	225	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Mokelumne River below Woodbridge	225	0	0	0	0	0	0	0	1	2	2	1	1	7	0
Cosumnes River below McConnell	225	0	0	0	0	0	0	0	0	0	1	1	0	2	0
Sacramento River below Sacramento	225	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Yolo Bypass (West Cut)	225	2	1	1	0	0	0	2	3	4	9	6	2	30	2
Miscellaneous	226	10	1	3	1	0	0	8	10	20	21	18	13	105	3
Total Water Utilization		158	53	45	30	89	151	277	299	406	500	483	320	2811	172

(a) Water supply from precipitation has been computed using a weighted mean rainfall and the acreage of the Delta Service Area.

TABLE 16

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SACRAMENTO RIVER AND TRIBUTARIES
OCTOBER 1956 THROUGH OCTOBER 1957

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-Feet												
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total	1957 Oct.
SACRAMENTO RIVER																
Computed Inflow to Shasta Lake		19	288	260	262	312	855	1002	616	705	333	256	223	257	5369	394
Unmeasured Accretions			-1	+4	+5	+11	+26	+34	+8	+10	+13	-5	+2	0	+107	+5
Change in Storage		20	-155	-135	-98	+100	+638	+145	+367	+64	-176	-331	-319	-184	-84	-90
At Keswick	250.5	21	442	399	365	223	243	891	257	651	522	582	544	441	5560	489
Near Redding*	240.7	22	430	373	339	217	240	908	232	648	481	556	524	425	5373	488
Clear Creek near Igo	237.1R	23	3	3	3	12	63	61	29	48	14	5	3	5	249	20
Cow Creek near Millville	228.8L	25	10	9	9	20	50	97	32	42	11	3	2	5	290	22
At Balls Ferry*	224.5	26	447	412	373	265	378	1057	323	753	520	564	527	443	6062	565
Cottonwood Creek near Cottonwood	222.2R	28	9	8	6	17	81	96	47	62	21	7	4	6	364	50
Battle Creek near Cottonwood	221.5L	29	15	15	15	17	30	46	29	42	26	14	11	14	274	24
Paynes Creek near Red Bluff	201.5L	30	0	0	1	2	4	8	2	2	0	0	0	1	20	3
Unmeasured Accretions			+38	+19	+14	+32	-4	+91	+30	+18	-3	+5	+12	+24	+276	+48
Diversions			26	1	2	9	0	0	23	26	30	32	30	27	206	11
Near Red Bluff	198.6	31	491	452	411	314	467	1290	403	839	561	584	546	469	6827	645
Redbank Creek near Red Bluff*	191.2R	32			0	1	7	3	1	0	0	0	0	0		3
Antelope Creek near Red Bluff*	182.6L	33	3	3	3	5	11	14	7	11	4	2	2	4	69	7
Antelope Creek near Mouth	182.6L	34	1	0	1	2	7	4	1	3	1	0	0	1	21	2
North Fork Mill Creek near Mouth	179.3L	35	0	1	1	1	0	0	0	0	0	0	0	0	3	0
Mill Creek near Los Molinos*	179.0L	36	8	8	7	9	28	30	18	32	19	10	7	10	186	14
Mill Creek near Mouth	179.0L	37	3	7	6	8	25	31	12	20	11	1	0	4	128	13
Elder Creek at Gerber	178.5R	38	0	0	0	2	16	9	5	4	0	0	0	0	36	7
Thomes Creek at Paskenta	173.2R	39	2	2	2	4	39	37	20	26	7	1	0	1	141	18
Deer Creek near Vina*	168.5L	40	9	8	8	10	33	38	19	26	10	7	6	8	182	11
Deer Creek at Highway 99E	168.5L	41	1	5	5	9	44	40	17	19	3	0	0	4	147	11
Unmeasured Accretions			+12	+6	+16	+16	+39	+96	+47	+43	+23	+23	+18	+13	+352	+33
Diversions			0	0	0	0	0	0	0	0	1	1	1	0	3	0
At Vina Bridge	166.5	42	510	473	442	357	644	1510	506	954	605	608	563	492	7664	732
Unmeasured Accretions			-38	-8	-12	+1	-28	-53	-81	-130	-110	-130	-130	-61	-780	0
Diversions			9	7	1	0	0	0	9	11	11	12	12	10	82	2
At Hamilton City	149.5	43	463	458	429	358	616	1457	416	813	484	466	421	421	6802	730
Big Chico Creek near Chico*	141.5L	44	2	2	2	4	16	15	7	12	3	2	2	2	69	4
Big Chico Creek at Chico	141.5L	45	1	1	1	1	7	8	5	9	2	0	1	1	37	0
Lindo Channel near Chico	141.5L	46	0	0	0	1	7	6	1	3	0	0	0	0	18	2
Stony Creek at Black Butte Dam Site*	138.0R	47	4	2	1	4	30	42	16	15	8	9	8	5	144	9
Stony Creek near Hamilton City	138.0R	48	0	0	0	1	27	41	11	7	1	0	0	0	88	8
Unmeasured Accretions			+36	+15	+18	+17	-13	-2	+95	+99	+117	+126	+131	+63	+702	-2
Diversions (a)			36	7	8	0	0	11	96	125	120	134	126	67	730	6
At Ord Ferry	130.8	49	464	467	440	378	644	1499	432	806	484	458	427	418	6917	732
Unmeasured Accretions			-5	-4	-9	-3	-35	-10	-4	-22	+13	-7	-23	-7	-116	+2
Diversions			2	2	3	0	0	0	15	15	15	16	14	6	88	1
At Butte City	115.8	50	457	461	428	375	609	1489	413	769	482	435	390	405	6713	733
Opposite Moulton Weir*	103.3	52	457	NR	NR	NR	NR	1550	425	783	460	421	397	407		721
Unmeasured Accretions			+1	+7	+11	+8	-12	+121	+22	+27	+2	+2	+19	+1	+209	+7
Moulton Weir	104.0L	51	0	0	0	0	1	6	0	0	0	0	0	0	7	0
Colusa Weir	92.4L	53	0	0	0	0	90	250	0	9	0	0	0	0	349	0
Diversions			1	2	1	0	0	0	8	19	23	27	20	6	107	0
At Colusa	89.4	54	457	466	438	383	506	1354	427	768	461	410	389	400	6459	740
Butte Creek near Chico*	84.0L	55	12	9	9	11	34	42	26	41	17	11	9	9	230	12
Butte Slough to Sacramento River	84.0L	56	0	5	7	26	20	7	15	14	11	2	3	12	122	13
At Meridian*	79.8S	57	462					1376	476	755	468	423	396	423		764
R. D. 70 Drain	68.8L	58	1	0	0	0	0	1	0	3	1	3	4	2	15	1
Unmeasured Accretions			+3	+8	+4	+5	-24	-50	+8	-11	+16	+7	0	-3	-37	-24
Tisdale Weir	64.2L	59	0	0	0	0	63	178	0	28	0	0	0	0	269	3
Diversions			3	1	1	0	1	0	34	69	72	80	76	26	363	1
Below Wilkins Slough	62.9	60	458	478	448	414	438	1134	416	677	417	342	320	385	5927	726
Above R. D. 108 Drain Plant*	46.4	61	454					1136	408	665	407	331	311	376		688
R. D. 108 Drain	44.0R	62	1	1	0	0	1	2	3	18	14	16	20	17	93	2
R. D. 787 Drain	37.0R	63	0	0	0	0	0	0	0	4	2	2	3	2	13	0
Colusa Basin Drain	34.1SR	66	29	15	17	16	5	5	27	40	35	40	55	69	353	34
Sycamore Slough	34.1SR	67	0	0	0	0	0	0	0	1	0	1	1	0	3	0
Unmeasured Accretions			+4	+16	+17	+15	+1	+70	+17	+1	+17	+22	+2	-6	+176	+41
Diversions			0	0	0	0	0	0	14	38	29	46	32	15	174	0
At Knights Landing	34.0	68	492	510	482	445	445	1211	449	703	456	377	369	452	6391	803
Sacramento Slough	21.2L	73	16	18	15	23	NR	NR	27	NR	43	30	37	38		36
Feather River at Nicolaus	20.9L	97	182	231	173	228	763	1177	521	835	312	56	41	106	4625	210
Coon Creek at Highway 99E*	19.6L	98	2	3	2	3	7	10	4	4	1	NR	NR	1		3
Auburn Ravine at Lincoln*	19.6L	99	1	2	2	2	4	6	3	6	3	4	4	2	39	2
Natomas Cross Canal at Head	19.6L	100	2	4	3	5	10	13	5	5	0	0	0	1	48	5
R. D. 1001 Drain	19.6L	101	0	0	0	0	0	1	0	2	0	0	0	0	3	0
Unmeasured Accretions			-11	-11	-21	-31	-80	+679	-2	+89	-9	-26	-6	-2	+569	-17
Fremont Weir	23.0R	69	0	0	0	0	190	434	0	20	0	0	0	0	644	0
Diversions (b)			0	0	0	0	0	0	4	13	13	16	16	7	69	0
At Verona	19.6	102	681	752	652	670	948	2647	996	1601	789	421	425	588	11170	1037
R. D. 1000 Drain (Pritchard Lake)	19.0L	103	0	0	0	0	0	0	0	0	0	1	1	2	4	0
R. D. 1000 Drain (2nd Bannon Slough)	2.1L	105	1	0	0	0	2	4	1	3	1	0	0	1	13	1
Linda Creek near Roseville	1.3L	106	3	2	2	3	4	9	3	4	1	0	1	2	34	3
American River at Sacramento	1.1L	110	84	119	98	72	98	431	198	322	251	182	195	149	2199	109
Unmeasured Accretions			-2	0	+22	-2	-57	+18	0	-13	-15	+3	+8	+2	-72	-26
Sacramento Weir	4.2R	104	0	0	0	0	1	6	0	0	0	0	0	0	7	0
Diversions (c)			5	5	5	3	2	2	8	12	28	33	31	17	151	4
At Sacramento	0.4	111	762	868	769	740	992	3065	1190	1905	999	574	599	727	13190	1120
Shasta Lake to Sacramento																
Total Unmeasured Accretions			+37	+52	+65	+69	-187	+958	+140	+111	+64	+20	+33	+24	+1386	+67
Total Diversions			82	25	21	12	3	13	211	328	342	397	358	181	1973	25

TABLE 16

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SACRAMENTO RIVER AND TRIBUTARIES (contd.)
OCTOBER 1956 THROUGH OCTOBER 1957

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-Feet													
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total	1957 Oct.
FEATHER RIVER																
Near Oroville	71.0	84	194	192	135	161	581	600	350	527	231	137	121	142	3371	202
Unmeasured Accretions			-8	-6	-10	-14	-12	+87	+6	+4	+5	0	-2	-8	+42	-20
Diversions			41	9	10	1	0	5	61	118	114	120	101	57	637	19
Near Gridley	49.7	85	145	177	115	146	569	682	295	413	122	17	18	77	2776	163
South Honcut Creek near Bangor	43.7L	86	0	0	1	1	4	3	1	2	0	0	0	0	12	0
Unmeasured Accretions			+20	+20	+23	+16	+72	+74	+24	+79	+17	+17	+18	+16	+396	+19
Diversions			0	0	0	0	0	0	1	1	2	4	5	1	14	0
At Yuba City	28.0R	87	165	197	139	163	645	759	319	493	137	30	31	92	3170	182
Yuba River at Marysville	27.3L	92	24	32	34	47	226	371	169	385	158	20	15	16	1497	31
Unmeasured Accretions			+29	+28	+15	+10	-146	-72	+16	-65	+4	+12	+2	-1	-168	+3
Diversions (d)			0	0	0	0	0	0	0	0	1	1	1	0	3	0
Below Shanghai Bend	23.0	93	218	257	188	220	725	1058	504	813	298	61	47	107	4496	216
Bear River near Wheatland	12.0L	95	5	7	6	10	36	73	27	51	4	0	0	0	219	3
Dry Creek near Wheatland	12.0L	96	0	0	0	1	7	6	2	3	0	0	0	0	19	0
Unmeasured Accretions			-41	-33	-21	-3	-5	+40	-10	-26	+18	+2	+1	+3	-75	-9
Diversions (e)			0	0	0	0	0	0	2	6	8	7	7	4	34	0
At Nicolaus	9.3	97	182	231	173	228	763	1177	521	835	312	56	41	106	4625	210
Oroville to Nicolaus																
Total Unmeasured Accretions			0	+9	+7	+9	-91	+129	+36	-8	+44	+31	+19	+10	+195	-7
Total Diversions			41	9	10	1	0	5	64	125	125	132	114	62	688	19
AMERICAN RIVER																
Computed Inflow to Folsom Reservoir		107	53	62	71	78	301	455	317	567	293	57	22	21	2297	45
Unmeasured Accretions			-2	-9	0	-2	-4	-7	-16	-10	-17	-15	-9	-9	-100	-3
Diversions			0	0	0	0	0	0	0	0	0	0	0	0	0	0
Change in Storage		108	-31	-64	-29	+5	+204	+28	+105	+236	+16	-145	-188	-136	+1	-71
At Fair Oaks	19.2	109	82	117	100	71	93	420	196	321	260	187	201	148	2196	113
Unmeasured Accretions			+2	+2	-2	+1	+5	+11	+2	+2	-7	-3	-5	+2	+10	-4
Diversions			0	0	0	0	0	0	0	1	2	2	1	1	7	0
At Sacramento	6.1	110	84	119	98	72	98	431	198	322	251	182	195	149	2199	109
Folsom Reservoir to Sacramento																
Total Unmeasured Accretions			0	-7	-2	-1	+1	+4	-14	-8	-24	-18	-14	-7	-90	-7
Total Diversions			0	0	0	0	0	0	0	1	2	2	1	1	7	0
SUTTER BYPASS																
Butte Slough to Sutter Bypass	29.4	70	3	5	3	7	58	380	12	37	12	11	9	5	542	24
Wadsworth Canal	25.7L	71	6	2	1	1	3	4	5	9	5	4	2	9	51	6
R. D. 1500 Drain	0.0R	72	4	1	0	1	2	6	4	22	21	38	37	24	160	4
Tisdale Weir	18.9R	59	0	0	0	0	63	178	0	28	0	0	0	0	269	3
Unmeasured Accretions			+5	+12	+13	+14	-126	-568	+10	-82	+22	-2	+10	+9	-683	+1
Diversions			2	2	2	0	0	0	4	14	17	21	21	9	92	2
Sacramento Slough	-1.0	73	16	18	15	23	NR	NR	27	NR	43	30	37	38		36
COLUSA BASIN DRAIN																
At Highway 20	37.0	64	25	16	15	16	10	9	30	72	37	45	56	64	395	37
Unmeasured Accretions			+4	+3	+2	+2	+1	+2	+3	+10	+8	+8	+13	+11	+67	+7
Diversions			2	1	1	0	0	0	2	4	5	5	5	3	28	2
Near College City	22.5L	65	27	18	16	18	11	11	31	78	40	48	64	72	434	42
Unmeasured Accretions			+3	-3	+1	-2	-6	-6	-3	-33	-1	-4	-6	-2	-62	-8
Diversions			1	0	0	0	0	0	1	5	4	4	3	1	19	0
At Knights Landing	0.25L	66	29	15	17	16	5	5	27	40	35	40	55	69	353	34
Highway 20 to Knights Landing																
Total Unmeasured Accretions			+7	0	+3	0	-5	-4	0	-23	+7	+4	+7	+9	+5	-1
Total Diversions			3	1	1	0	0	0	3	9	9	9	8	4	47	2
YUBA RIVER																
At Englebright Dam	22.8	88	34	36	38	35	207	311	162	380	167	44	37	29	1480	29
Deer Creek near Smartville	21.8	90	2	1	1	4	11	14	8	19	3	1	0	0	64	1
Dry Creek at Virginia Ranch	11.0	91	0	1	1	2	13	11	4	9	1	1	0	0	43	0
Unmeasured Accretions			+2	+3	+3	+8	-5	+37	+10	+2	+15	+4	+7	+5	+91	+12
Diversions			14	9	9	2	0	2	15	25	28	30	29	18	181	11
At Marysville	5.2	92	24	32	34	47	226	371	169	385	158	20	15	16	1497	31

Note: The unmeasured accretions between gaging stations were computed by subtracting the measured inflows to a reach from the sum of the measured diversions and measured outflows from that reach. Unmeasured stream flow for periods of no record are included in the unmeasured accretions.

a Not included in computations of unmeasured accretions.
a Includes diversions from Stony Creek by Glenn-Colusa Irrigation District.
b Includes diversions from Feather River below Nicolaus.
c Includes diversions from American River below "N" Street Bridge.
d Includes diversions from Yuba River below Mile 5.2.
e Includes diversions from Bear River below Wheatland.

TABLE 17

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SAN JOAQUIN RIVER AND TRIBUTARIES
OCTOBER 1956 THROUGH OCTOBER 1957

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-Feet													
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total	1957 Oct.
SAN JOAQUIN RIVER																
Computed Inflow to Millerton Lake		118	91	67	73	46	70	101	132	220	287	133	86	66	1372	58
Unmeasured Accretions			-2	-1	-1	-1	0	-1	-1	-3	-4	-4	-5	-2	-25	-1
Change in Storage		119	-6	+18	+54	+36	+45	-9	+26	+138	+15	-125	-139	-87	-34	+21
Madera Canal at Head	269.63R		0	0	0	0	0	13	20	9	46	62	58	34	242	2
Friant-Kern Canal at Head	269.63L		50	31	0	1	22	92	78	63	211	181	152	109	990	28
Diversions			0	0	0	0	0	0	0	0	0	0	0	0	0	0
Below Friant	268.13L	120	45	17	18	8	3	4	7	7	11	11	10	8	149	6
Little Dry Creek at Mouth, near Friant	264.0L	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unmeasured Accretions			+1	+1	-2	+2	+1	0	0	0	-1	-1	-1	-1	-1	0
Diversions			1	0	0	0	0	0	1	1	3	3	3	2	14	1
Near Biola	236.4R	122	45	18	16	10	4	4	6	6	7	7	6	5	134	5
Unmeasured Accretions			-5	-1	-1	0	-1	-2	-3	-3	-2	-4	-4	-4	-30	-3
Diversions			0	0	0	0	0	0	0	0	0	1	0	0	1	0
At Whitehouse	219.83	123	40	17	15	10	3	2	3	3	5	2	2	1	103	2
Delta-Mendota Canal (a)	209.0L	167	32	0	0	0	41	85	106	107	145	158	148	98	920	50
Unmeasured Accretions			-18	+1	-7	-4	-3	-2	-7	-6	-12	-6	-8	-18	-90	-15
Diversions (b)			48	16	7	5	19	61	88	91	115	126	117	63	756	32
Near Mendota	206.2	124	6	2	1	1	22	24	14	13	23	28	25	18	177	5
Unmeasured Accretions			+2	+1	+2	+1	-1	+6	+2	+3	+3	+1	+1	+1	+22	+2
Diversions			8	3	2	0	5	13	15	16	25	29	26	19	161	7
Near Dos Palos	186.0	125	0	0	1	2	16	17	1	0	1	0	0	0	38	0
Fresno River near Daulton*	184.0R	126	0	1	1	2	3	7	6	9	5	1	0	0	35	0
Chowchilla R. at Buchanan Dam Site*	151.0R	127	0	0	1	1	3	6	2	5	1	0	0	0	19	0
Mariposa Creek below Mariposa Res.*		129	0	0	0	0	1	2	0	1	0	0	0	0	4	0
Owens Creek below Owens Res.*		130	0	0	0	0	0	1	0	0	0	0	0	0	1	0
Burns Creek below Burns Res.*		132	0	0	0	0	0	1	0	0	0	0	0	0	1	0
Bear Creek below Bear Res.*		131	0	0	0	1	1	2	1	1	0	0	0	0	6	0
Salt Slough near Los Banos		128	3	2	2	4	6	7	8	5	5	7	7	6	62	3
Unmeasured Accretions			+7	+1	+1	+5	0	+8	+12	+18	+9	+4	+5	+3	+73	+7
Diversions			0	0	0	0	0	0	1	1	1	1	1	0	5	0
At Fremont Ford Bridge	129.5	133	10	3	4	11	22	32	20	22	14	10	11	9	168	10
Merced River near Stevinson	123.75R	137	13	9	10	10	10	33	25	26	86	10	10	13	255	13
Unmeasured Accretions			+3	+3	+1	+7	+5	+11	0	+1	+5	+2	+2	+2	+42	-4
Diversions (c)			0	0	0	0	0	0	0	0	1	1	1	1	4	0
Near Newman	123.7	138	26	15	15	28	37	76	45	49	104	21	22	23	461	19
Merced River Slough	122.2R	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orestimba Creek near Newman	115	140	0	0	0	0	2	0	0	0	0	0	0	0	2	0
Unmeasured Accretions			+15	+12	+12	+9	+7	+10	+14	+18	+5	+18	+16	+16	+152	+17
Diversions			1	0	0	0	0	2	12	8	11	12	12	7	65	1
At Grayson (Laird Slough)	96.05	141	40	27	27	37	46	84	47	59	98	27	26	32	550	35
Tuolumne River at Tuolumne City	91.0R	148	51	64	80	59	38	70	29	34	51	22	21	21	540	61
Unmeasured Accretions			+6	+6	+10	+5	+2	-2	+13	+22	+26	+19	+14	+10	+131	+7
Diversions (d)			2	1	1	1	1	2	19	12	20	24	18	9	110	1
At Patch Hatchy Aqueduct Crossing	82.65	149	95	96	116	100	85	150	70	103	155	44	43	54	1111	102
Stanislaus River near Mouth	79.7R	154	25	29	22	18	10	32	12	70	81	10	7	11	327	18
Unmeasured Accretions			+3	+7	+16	0	+3	+7	+2	-12	-8	+6	+1	+6	+31	+7
Diversions (e)			0	0	0	0	0	1	5	3	4	6	5	3	27	1
Near Vernalis	76.7	155	123	132	154	118	98	188	79	158	224	54	46	68	1442	126
Millerton Lake to Vernalis																
Total Unmeasured Accretions			+12	+30	+31	+24	+13	+35	+32	+38	+21	+35	+21	+13	+305	+17
Total Diversions			60	20	10	6	25	79	141	132	180	203	183	104	1143	43
MERCED RIVER																
At Exchequer		134	30	2	3	2	2	37	96	108	180	115	99	75	749	6
Unmeasured Accretions			-4	-2	-3	-2	-1	-11	-5	-10	-1	-8	-7	-4	-58	-2
Merced Irrigation District Canals	46.0		26	0	0	0	0	12	82	85	105	105	90	68	573	3
Below Snelling	42.1	135	0	0	0	0	1	14	9	13	74	2	2	3	118	1
Unmeasured Accretions			+6	+6	+5	+5	+6	+16	+9	+4	+9	+4	+4	+3	+77	+6
Diversions			0	0	0	0	0	0	1	1	2	2	2	1	9	1
At Cressey	27.6	136	6	6	5	5	7	30	17	16	81	4	4	5	186	6
Unmeasured Accretions			+8	+4	+5	+5	+3	+3	+10	+11	+8	+10	+9	+10	+86	+7
Diversions			1	1	0	0	0	0	2	1	3	4	3	2	17	0
Near Stevinson	4.6	137	13	9	10	10	10	33	25	26	86	10	10	13	255	13
Exchequer to Stevinson																
Total Unmeasured Accretions			+10	+8	+7	+8	+8	+8	+14	+5	+16	+6	+6	+9	+105	+11
Total Diversions			1	1	0	0	0	0	3	2	5	6	5	3	26	1

Note: The unmeasured accretions between gaging stations were computed by subtracting the measured inflows to a reach from the sum of the measured diversions and measured outflows from that reach.

* Not included in computations of unmeasured accretions.
a Diversions from Delta-Mendota Canal into Mendota Pool as computed by U. S. Bureau of Reclamation.
b Includes diversions from Fresno Slough and James Bypass.
c Includes diversions from Merced River below Stevinson.
d Includes diversions from Tuolumne River below Tuolumne City.
e Includes diversions from Stanislaus River below Mile 1.9.

TABLE 17

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SAN JOAQUIN RIVER AND TRIBUTARIES (cont'd)
OCTOBER 1956 THROUGH OCTOBER 1957

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-Feet												
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total	1957 Oct.
TUOLUMNE RIVER																
Above La Grange Dam		142	57	95	93	49	31	89	137	125	188	164	137	120	1285	78
Unmeasured Accretions			-3	-1	0	-2	-2	-3	+1	0	0	+1	+1	+1	-7	+1
Modesto Irrigation District Canal	53.5R		14	10	0	0	3	16	48	41	58	59	49	43	341	20
Turlock Irrigation District Canal	53.5L		13	22	6	8	8	18	85	73	101	105	88	77	604	10
At La Grange Bridge	50.5	143	27	62	87	39	18	52	5	11	29	1	1	1	333	49
Unmeasured Accretions			+3	+2	+5	+3	+3	+3	+4	+2	+1	+3	+1	+2	+32	-1
Diversions			0	0	0	0	0	0	0	0	0	1	0	0	1	0
At Roberts Ferry Bridge	39.9	144	30	64	92	42	21	55	9	13	30	3	2	3	364	48
Unmeasured Accretions			+5	+5	+6	+7	+4	+2	+3	+3	+3	+4	+5	+4	+52	+6
Diversions			0	0	0	0	0	0	0	0	0	0	1	0	1	0
At Hickman Bridge	31.7	145	35	69	98	49	25	57	12	16	33	7	6	7	414	54
Dry Creek near Modesto	16.5R	146	3	1	1	2	2	6	4	5	4	4	4	3	39	4
Unmeasured Accretions			+8	+2	0	+4	+7	+8	+8	+11	+7	+7	+8	+8	+78	+5
Diversions (a)			0	0	0	0	0	0	0	0	0	1	1	0	2	0
At Modesto	16.0S	147	46	72	99	55	34	71	24	32	44	17	17	18	529	63
Unmeasured Accretions			+5	-8	-18	+4	+4	-1	+6	+2	+8	+6	+5	+3	+16	-2
Diversions			0	0	0	0	0	0	1	1	1	1	1	0	5	0
At Tuolumne City	3.3S	148	51	64	81	59	38	70	29	33	51	22	21	21	540	61
Above La Grange Dam to Tuolumne City																
Total Unmeasured Accretions			+18	0	-7	+16	+16	+9	+22	+18	+19	+21	+20	+18	+170	+9
Total Diversions			0	0	0	0	0	0	1	1	1	3	3	0	9	0
STANISLAUS RIVER																
Below Melones Powerhouse		150	29	23	16	15	11	42	80	152	169	100	85	48	770	28
Unmeasured Accretions			-1	-3	-1	0	+2	+1	-2	-3	-2	-1	-2	0	-12	-8
Oakdale Canal	58.6L		5	0	0	0	0	5	20	25	28	30	26	15	154	5
South San Joaquin Canal	58.6R		10	0	0	5	11	14	55	55	67	67	55	31	370	11
Diversions			0	0	0	0	0	0	0	0	0	0	0	0	0	0
At Orange Blossom Bridge	47.0	151	13	20	15	10	2	24	3	69	72	2	2	2	234	4
Unmeasured Accretions			+5	+3	+4	+4	+2	+4	+4	+4	+4	+5	+4	+3	+46	+3
Diversions			0	0	0	0	0	0	0	0	0	1	1	0	2	0
At Riverbank	33.6	152	18	23	19	14	4	28	7	73	76	6	5	5	278	7
Unmeasured Accretions			+6	+4	+2	+4	+4	+3	+4	0	+7	+7	+6	+6	+53	+7
Diversions			0	0	0	0	0	0	0	0	1	1	1	0	3	0
At Ripon	15.7L	153	24	27	21	18	8	31	11	73	82	12	10	11	328	14
Unmeasured Accretions			+3	+2	+1	0	+2	+3	+7	+2	+7	+6	+5	+5	+43	+5
Diversions			2	0	0	0	0	2	6	5	8	8	8	5	44	1
Near Mouth	1.9	154	25	29	22	18	10	32	12	70	81	10	7	11	327	18
Melones Powerhouse to Mouth																
Total Unmeasured Accretions			+13	+6	+6	+8	+10	+11	+13	+3	+16	+17	+13	+14	+130	+7
Total Diversions			2	0	0	0	0	2	6	5	9	10	10	5	49	1
MORMON SLOUGH																
At Bellota	0.0S	164	0	1	2	1	1	21	0	0	3	4	2	0	35	0
Unmeasured Accretions			0	-1	-1	0	-1	0	0	0	-2	-2	-1	0	-8	0
Diversions			0	0	0	0	0	0	0	0	1	2	1	0	4	0
Stockton Diverting Canal at Stockton	16.2	165	0	0	1	1	0	21	0	0	0	0	0	0	23	0
CALAVERAS RIVER																
At Jenny Lind	36.9	161	0	1	2	4	3	25	1	1	12	12	9	0	70	0
Unmeasured Accretions			0	0	+1	-1	-1	0	-1	-1	-1	0	0	0	-4	0
Mormon Slough at Bellota	25.3L	164	0	1	2	1	1	21	0	0	3	4	2	0	35	0
Diversions			0	0	0	0	0	0	0	0	1	1	1	0	3	0
At Bellota	25.2S	162	0	0	1	2	1	4	0	0	7	7	6	0	28	0
Unmeasured Accretions			0	0	-1	-1	-1	0	0	0	-2	-3	-3	0	-11	0
Diversions			0	0	0	0	0	0	0	0	4	3	3	0	10	0
Near Stockton	7.9	163	0	0	0	1	0	4	0	0	1	1	0	0	7	0
Jenny Lind to Stockton																
Total Unmeasured Accretions			0	0	0	-2	-2	0	-1	-1	-3	-3	-3	0	-15	0
Total Diversions			0	0	0	0	0	0	0	0	5	4	4	0	13	0
MOKELUMNE RIVER																
At Lancha Plana		168	37	41	44	22	8	55	41	50	109	33	34	30	504	27
Near Clements	39.3S	169	35	40	43	21	8	56	41	49	105	33	33	30	494	27
Unmeasured Accretions			-3	+1	-1	-1	-1	-1	-1	-6	+2	-3	-2	-2	-18	+11
Diversions			9	1	0	0	0	2	12	14	20	24	23	15	120	19
At Woodbridge	19.2	170	23	40	42	20	7	53	28	29	87	6	8	13	356	19
COSUMNES RIVER																
At Michigan Bar	34.3	172	3	4	4	7	35	84	33	49	14	3	1	1	238	2
Unmeasured Accretions			-2	-1	-1	-1	-3	+9	-1	0	+2	+1	+1	0	+4	-1
Diversions			0	0	0	0	0	0	0	0	2	3	2	1	8	0
At McConnell	10.7	173	1	3	3	6	32	93	32	49	14	1	0	0	234	1

Note: The unmeasured accretions between gaging stations were computed by subtracting the measured inflows to a reach from the sum of the measured diversions and measured outflows from that reach.

a Includes diversions from Dry Creek below Modesto.

TABLE 18

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
TULE RIVER AND TULARE LAKE BASIN
OCTOBER 1956 THROUGH OCTOBER 1957

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-Feet												
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total	1957 Oct.
TULE RIVER																
Near Porterville	-1.0	181	1	2	2	3	5	7	6	19	7	1	0	0	53	1
Unmeasured Accretions			0	-1	0	+2	+2	+3	+2	+5	+1	-1	0	0	+13	0
Diversions			0	0	0	1	1	1	1	1	1	0	0	0	6	0
At Worth Bridge	2.2	180	1	1	2	4	6	9	7	23	7	0	0	0	60	1
Friant-Kern Canal to Porter Slough*	3.2R	186	0	0	0	0	0	0	0	0	1	0	0	0	1	0
Friant-Kern Canal to Tule River	11.3	182	8	10	0	0	1	13	5	3	17	22	27	22	128	0
Unmeasured Accretions			-8	-10	-1	-1	-3	-17	-8	-18	-17	-22	-27	-22	-154	0
Diversions			1	1	1	3	4	5	4	7	7	0	0	0	33	1
At Turnbull Station	39.0	187	0	0	0	0	0	0	0	1	NR	0	0	0		0
Porterville to Turnbull Station																
Total Unmeasured Accretions			-8	-11	-1	+1	-1	-14	-6	-13	-16	-23	-27	-22	-141	0
Total Diversions			1	1	1	4	5	6	5	8	8	0	0	0	39	1
INFLOW TO TULARE LAKE BASIN																
South Fork Kings River below Empire Weir #2		176	0	0	0	1	1	0	0	0	0	6	10	5	23	0
Cross Creek below Lakeland Canal #2		177	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tule River at Turnbull Station		187	0	0	0	0	0	0	0	1	NR	0	0	0		0
Total Measured Inflow to Tulare Lake Bed			0	0	0	1	1	0	0	1		6	10	5		0

Note: The unmeasured accretions between gaging stations were computed by subtracting the measured inflows to a reach from the sum of the measured diversions and measured outflows from that reach. Unmeasured stream flow for periods of no record are included in the unmeasured accretions.
* Not included in computations of unmeasured accretions.

TABLE 19

INFLOW TO SHASTA LAKE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	4140	5650	4370	3110	5030	23320	9280	10020	8080	4650	4000	2920
2	4520	5580	4790	4110	2760	18930	9110	12520	7980	5560	4360	1900
3	4470	5370	4210	4860	2130	17820	9240	10380	8030	5730	2790	3750
4	4520	4770	4100	4920	4160	19680	8810	9910	7300	5200	2280	3730
5	4880	4270	3540	4520	4990	20890	9070	9620	6990	5160	3740	3790
6	4700	3470	4020	4000	4560	21260	8880	9440	6880	2810	4230	3920
7	2520	3570	3910	3990	5720	19850	8530	9110	6860	2830	3890	3810
8	3890	4210	4100	3520	6180	17850	8150	10030	6450	4270	4210	2410
9	4310	5150	3160	3110	4550	21180	8150	9550	4880	5130	3990	3370
10	4950	5180	4350	3420	3340	18390	7950	8390	5980	5040	3090	3750
11	3860	4460	4150	5400	4680	22570	7990	8620	6810	5090	2150	3920
12	3440	5030	4460	8940	5060	29100	8400	8610	5980	5000	4040	3600
13	3690	4680	5290	10730	5310	21410	9950	10120	6220	2780	4100	3640
14	5220	4010	4700	10260	6120	18000	12990	11130	5520	2440	4060	3470
15	5370	3330	4540	8500	6150	19540	10260	10380	4120	3930	4040	2440
16	5240	3690	4420	5780	6430	18870	12050	9570	4340	4120	4100	3380
17	4640	3110	4380	5090	6400	17950	15230	10200	5320	4410	2770	3640
18	5150	3760	3370	4950	6420	16160	14830	33430	5200	4460	2440	3890
19	4660	4400	5200	5080	6390	14870	14700	22340	5240	4230	3540	3330
20	4170	4610	5650	4130	8230	13820	13290	17060	5200	2740	4310	4010
21	3520	4800	4290	4970	10090	12780	12160	14050	5550	2740	4220	3280
22	4070	4380	4800	4680	12120	11680	11250	12340	4230	4400	4050	2620
23	4790	4890	5060	4780	33060	11040	11140	11710	3010	4710	4270	3950
24	4220	4670	4400	4640	77070	10400	10690	10990	4880	4530	2330	3770
25	3540	3070	3920	5340	46440	10230	10230	10280	4780	4530	2130	4590
26	4310	3860	4410	4140	71570	9600	10010	9890	5250	4420	3670	8250
27	5540	4050	4200	2680	46360	9420	9440	9780	4930	2980	4140	17470
28	5000	4240	4110	4430	29530	9280	a 9570	9310	5730	2320	3650	7090
29	6250	4360	3660	4170		10520	10320	9270	3440	4130	3980	b 3990
30	9670	4300	2630	4180		9180	8990	9070	2820	4460	4400	5540
31	6170	—	4100	4950	—	9550	—	8450	—	4250	3520	—
Mean	4691	4364	4267	5077	15388	16295	10355	11470	5600	4163	3629	4307
Ac-Ft	288440	259680	262390	312160	854580	1001930	615390	705260	333220	255970	223120	256630

Maximum Discharge C.F.S. For	Water Year	Total Discharge Ac.-Ft. For	56-Calendar Year 7273000
	Year of Record		56-57 Water Year 5369000

These quantities are the daily mean second-feet inflow to Shasta Lake taking into account change in storage, release, spill, precipitation, and evaporation and are representative of the natural flow passing the dam site if the dam had not been constructed. Drainage area is 6,665 square miles (excluding Goose Lake Basin). Period of record November 1942 to date. Records computed by U. S. Bureau of Reclamation.

(a) 23-hour day
(b) 25-hour day

TABLE 20

DAILY CONTENT OF SHASTA LAKE

Date	Storage at end of day in thousands of acre-feet											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	3561.9	3410.6	3274.9	3178.2	3284.0	3894.7	4076.4	4438.9	4492.7	4309.7	3977.9	3658.6
2	3556.3	3407.7	3272.0	3177.7	3284.3	3841.9	4088.1	4452.7	4489.5	4302.2	3968.1	3645.2
3	3550.7	3404.2	3267.7	3179.4	3283.6	3783.1	4100.1	4461.2	4486.0	4294.7	3956.6	3636.4
4	3545.4	3400.3	3263.6	3181.0	3286.2	3734.5	4111.5	4468.0	4482.1	4286.4	3942.0	3627.6
5	3540.6	3393.9	3258.6	3182.2	3290.8	3695.2	4122.7	4472.4	4477.7	4277.7	3930.6	3619.1
6	3535.5	3386.5	3254.2	3182.0	3294.6	3663.3	4133.9	4477.1	4473.0	4264.5	3920.8	3610.9
7	3525.9	3379.4	3249.7	3182.7	3300.4	3653.7	4144.8	4481.2	4469.5	4251.7	3910.0	3603.0
8	3519.6	3373.5	3245.6	3181.5	3307.4	3656.3	4155.5	4487.1	4466.2	4241.1	3900.1	3592.5
9	3514.1	3369.6	3239.6	3179.8	3311.0	3675.5	4165.4	4491.9	4460.0	4232.3	3889.8	3583.5
10	3509.5	3366.7	3236.1	3179.1	3312.5	3697.3	4175.0	4491.6	4455.9	4223.4	3877.5	3576.1
11	3503.2	3362.3	3232.2	3182.0	3315.9	3726.6	4183.2	4490.7	4453.3	4214.6	3864.4	3569.5
12	3495.7	3359.1	3228.7	3193.1	3320.7	3773.3	4191.4	4489.8	4448.9	4205.8	3854.8	3562.4
13	3488.9	3355.5	3227.0	3208.5	3325.8	3804.2	4203.3	4492.4	4445.1	4192.5	3846.2	3555.3
14	3485.2	3350.3	3224.1	3223.0	3332.8	3828.1	4221.7	4496.9	4439.8	4178.9	3837.2	3547.9
15	3481.2	3344.0	3220.8	3232.5	3338.7	3855.0	4235.1	4499.6	4432.2	4167.1	3827.8	3538.5
16	3477.2	3337.9	3218.4	3237.3	3346.2	3881.3	4251.1	4500.4	4424.3	4155.5	3818.5	3531.0
17	3472.4	3330.9	3213.7	3240.6	3353.8	3902.2	4274.6	4501.0	4418.7	4144.3	3807.1	3524.1
18	3468.2	3325.3	3208.0	3243.5	3361.1	3919.5	4296.7	4528.9	4412.9	4133.3	3795.0	3517.6
19	3462.7	3320.7	3206.6	3246.8	3368.2	3933.8	4316.0	4523.8	4407.1	4122.1	3785.2	3510.0
20	3456.7	3316.8	3205.1	3249.9	3379.2	3944.1	4331.7	4510.5	4401.2	4108.5	3776.2	3503.5
21	3449.3	3313.9	3201.4	3253.8	3394.4	3953.9	4346.7	4507.5	4396.0	4095.3	3767.2	3496.2
22	3443.1	3310.5	3199.5	3256.9	3413.1	3961.5	4358.3	4509.9	4388.2	4085.6	3758.2	3487.9
23	3438.6	3307.9	3198.5	3260.5	3474.7	3971.3	4370.4	4513.2	4378.0	4076.7	3749.5	3482.2
24	3431.9	3304.8	3195.7	3263.3	3613.7	3980.6	4381.5	4512.6	4371.3	4066.4	3737.1	3476.2
25	3424.5	3298.7	3192.3	3267.7	3684.0	3990.7	4391.4	4511.4	4364.4	4056.5	3725.3	3471.9
26	3419.0	3293.9	3189.5	3269.6	3805.0	4001.9	4400.9	4508.4	4358.3	4046.3	3714.6	3475.2
27	3415.6	3289.6	3187.9	3268.9	3881.8	4012.4	4408.8	4503.1	4350.8	4033.3	3705.9	3497.0
28	3411.9	3285.7	3185.7	3272.2	3918.9	4023.9	4417.3	4501.6	4344.4	4019.2	3696.3	3496.0
29	3409.6	3282.1	3183.9	3274.4		4038.2	4424.8	4499.3	4332.2	4009.1	3687.4	3489.2
30	3415.3	3278.3	3181.3	3276.3		4050.9	4431.3	4498.4	4319.2	3998.7	3679.1	3484.9
31	3413.4	—	3180.1	3280.4	—	4063.9	—	4495.7	—	3988.3	3669.2	—
Monthly Change	-155.1	-135.1	-98.2	+100.3	+638.5	+145.0	+367.4	+64.4	-176.5	-330.9	-319.1	-184.3

Annual gain or loss in storage: Calendar Year -236,000; Water Year -83,600 Acre-Feet
Differences in storage 1956 to 1957 water years: Maximums +21,900; Minimums +889,400 Acre-Feet

Period of record November 1942 to date. Records computed by U. S. Bureau of Reclamation.

TABLE 21

SACRAMENTO RIVER AT KESWICK

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	7280	7200	6270	4260	3200	36000	3160	6140	9940	9440	9350	8590
2	7250	7200	6270	4270	2930	46500	3300	6200	9910	9430	9350	8590
3	7180	7200	6280	4080	2920	49000	3310	6190	9890	9400	9350	8270
4	7150	7200	6280	4060	2920	45400	3260	6450	9450	9360	9360	8170
5	7150	7200	6280	4040	2920	42200	3240	7150	9430	9400	9350	8170
6	7150	7200	6280	4050	2920	38900	3240	7150	9410	9400	9350	8170
7	7150	7200	6250	4060	2910	25200	3220	7140	8850	9430	9350	7780
8	7150	7230	6280	4040	2910	16900	3230	7120	8540	9430	9350	7710
9	7150	7190	6290	4040	2920	11200	3220	7220	8520	9410	9350	7710
10	7150	6710	6250	4050	2910	8190	3230	8340	8520	9440	9320	7220
11	7150	6730	6270	3660	2920	8300	3420	8850	8520	9430	8580	7220
12	7160	6720	6250	3700	2920	6460	4060	8850	8510	9460	8580	7200
13	7160	6700	6250	3750	2920	6340	4060	8870	8500	9350	8600	7190
14	7160	6700	6240	3730	2920	6330	4090	8850	8470	9360	8600	7180
15	7200	6720	6240	3710	2920	6340	4080	8870	8520	9830	8590	7160
16	7190	6720	6270	3680	2910	6340	4100	8850	8540	9840	8590	7190
17	7190	6720	6320	3670	2930	8270	4130	9760	8540	9830	8590	7180
18	7190	6660	6300	3650	2930	8300	4120	21200	8520	9880	8590	7160
19	7200	6730	6290	3250	2920	8290	5280	25700	8520	9840	8650	7160
20	7230	6730	6290	3280	2920	8230	5280	24400	8000	9480	8620	7160
21	7190	6240	6300	3250	2940	8200	5270	15400	8180	9360	8600	6790
22	7180	6240	5800	3240	2930	8230	5270	10900	8200	9380	8630	6660
23	7190	6250	5750	3240	3300	6290	5270	10300	8230	9380	8620	6700
24	7180	6250	5710	3240	10000	6270	5230	11700	8240	9350	8620	6680
25	7190	6240	5740	3240	12000	6360	5260	12200	8310	9350	8600	6680
26	7180	6250	5750	3240	12900	4090	5270	12300	8680	9350	8630	6710
27	7180	6240	5230	3230	8490	4060	5260	12700	8660	9350	8650	7050
28	7180	6240	5220	3230	11400	3540	5260	9100	8850	9360	8600	7580
29	7200	6250	4270	3230		3550	5980	10400	9380	9380	8650	7610
30	7320	6250	4260	3230		3030	6180	9920	9440	9400	8630	7670
31	7200	—	4270	3230	—	3020	—	9940	—	9380	8600	—
Mean	7186	6704	5927	3633	4380	14490	4309	10590	8776	9467	8848	7410
Ac-Ft	441900	398900	364500	223400	243200	891200	256400	650900	522200	582100	544100	440900

Maximum Discharge C.F.S. For Water Year 52,600 March 4, 1957
Year of Record 186,000 February 28, 1940

Total Discharge Ac.-Ft. For 56-Calendar Year 7600000
56-57 Water Year 5560000

Station located at Mile 250.5R above Sacramento. These flows include releases from Shasta Reservoir. Drainage area is approximately 6,710 square miles (excluding Goose Lake Basin). Period of record October 1938 to date. Records computed by U. S. Geological Survey.

TABLE 22

SACRAMENTO RIVER NEAR REDDING

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	7200	6910	5710	4040	3170	35100	3010	5900	9240	8890	9020	8240
2	7080	6880	5740	4040	2770	*45000	3080	5950	9300	8890	9050	8180
3	7020	6830	5790	3840	2760	*47000	3080	6000	9300	8860	9020	7920
4	6940	6810	5770	3800	2740	*49000	2930	6180	8860	8890	9020	7770
5	7000	6830	5770	3820	2740	*44000	2720	7000	8830	8890	9020	7770
6	7000	6830	5770	3800	2760	*40900	2690	7000	8800	8890	9020	7770
7	7020	6830	5770	3820	2760	*27600	2680	6970	8150	8920	9020	7490
8	7020	6830	5770	3820	2740	*18500	2600	6970	7690	8950	9020	7340
9	7000	6830	5770	3840	2740	*11800	2580	7230	7660	8950	9020	7370
10	7000	6360	5740	3860	2720	*8290	2550	8410	7690	8890	8990	6970
11	7020	6340	5740	3450	2740	*8320	2660	9140	7660	8890	8290	6910
12	7050	6290	5710	3570	2720	*7260	3550	9110	7660	8950	8240	6910
13	7020	6310	5770	3680	2720	*6420	3590	9210	7660	8950	8260	6940
14	7020	6310	5740	3630	2720	*6340	3720	9240	7630	8950	8260	6880
15	7020	6290	5740	3740	2710	*6470	3680	9270	7660	9460	8260	6910
16	7000	6260	5770	3680	2640	*6390	3680	9270	7660	9460	8290	6940
17	7000	6210	5790	3680	2710	*8210	3800	9910	7660	9460	8260	6940
18	7000	6210	5840	3660	2710	*8240	3800	20800	7660	9500	8260	6940
19	6940	6260	5840	3250	2710	*8210	4840	26700	7660	9460	8290	6940
20	6940	6290	5900	3320	2720	*8210	5020	26600	7600	9110	8320	6910
21	6970	5820	5900	3190	2880	*8180	4970	*16900	7630	8990	8260	6600
22	6910	5770	5490	3190	2840	*8150	4970	*11000	7630	9020	8290	6440
23	6910	5770	5420	3190	3320	*6520	4970	9690	7690	9020	8290	6470
24	6940	5740	5390	3170	10000	*6310	4950	10800	7690	9020	8260	6420
25	6940	5740	5390	3190	12400	*5440	4880	11600	7770	9020	8260	6390
26	6940	5740	5420	3170	13700	*4360	4880	11600	8120	8990	8290	6520
27	6940	5710	5020	3170	9020	*4190	4900	12000	8150	8950	8290	6860
28	6910	5710	4950	3190	11800	*3700	4880	8150	8260	8990	8320	7520
29	6970	5710	4190	3170		*3640	5560	9620	8860	9020	8320	7490
30	7260	5710	4020	3170		*3000	5900	9210	8860	9020	8320	7520
31	6910	—	4020	3150	—	*3080	—	9240	—	9020	8320	—
Mean	6996	6271	5505	3525	4320	14770	3904	10540	8090	9041	8521	7142
Ac-Ft	430200	373200	338500	216800	239900	908100	232300	647900	481400	555900	523900	425000

Maximum Discharge C.F.S. For Water Year 51,800 March 4, 1957
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year
56-57 Water Year 5373000

Station located below the diversion dam of Anderson-Cottonwood Irrigation District, Mile 240.7 above Sacramento. Also known as "Sacramento River above Churn Creek Pumps". Period of record March 1945 to April 1952; March 1954 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 23

CLEAR CREEK NEAR IGO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	23	104	48	45	88	1280	425	400	415	128	50	36
2	22	96	48	45	88	949	400	450	391	122	48	35
3	22	81	48	45	83	830	382	410	368	117	47	34
4	22	74	50	43	81	879	368	370	350	110	47	33
5	22	69	52	41	81	1140	350	350	328	105	50	31
6	21	65	52	41	81	1190	342	340	310	100	52	30
7	20	63	52	41	88	1050	328	330	302	98	52	30
8	26	58	46	46	123	963	314	400	286	95	50	29
9	33	58	48	46	123	1520	306	475	282	89	50	28
10	38	56	52	41	115	1260	298	450	278	87	48	27
11	46	54	54	58	112	1180	290	420	263	85	45	28
12	43	52	58	230	112	1820	294	405	249	81	45	30
13	39	52	58	958	123	1420	294	611	238	81	43	30
14	36	50	54	860	156	1150	485	914	232	91	42	30
15	35	50	52	926	166	1340	355	788	229	91	41	30
16	33	50	50	350	166	1360	391	672	219	81	40	31
17	33	52	50	225	166	1600	800	663	209	77	38	33
18	31	52	48	170	162	1330	1100	3800	197	73	37	36
19	33	52	48	156	156	1130	950	2180	191	71	36	36
20	33	52	48	237	162	1000	850	1710	182	70	35	33
21	31	52	48	187	378	865	750	1310	179	70	35	31
22	30	52	46	152	423	758	660	1030	173	70	36	30
23	30	52	45	136	4530	672	600	872	164	65	34	30
24	34	52	48	123	9240	622	540	764	156	62	34	30
25	36	52	46	115	4450	590	500	694	150	60	33	30
26	50	52	45	106	4950	555	460	616	144	57	34	60
27	63	50	45	88	3440	520	430	585	139	57	35	1100
28	48	50	45	104	1890	500	410	535	133	54	35	346
29	59	50	45	88		500	390	510	130	54	35	225
30	548	48	45	88		485	370	475	128	53	37	179
31	159	—	45	88	—	455	—	445	—	52	37	—
Mean	54.8	58.3	49.0	190	1133	997	481	773	234	80.8	41.3	89.7
Ac-Ft	3370	3470	3010	11660	62940	61320	28630	47550	13910	4970	2540	5340

Maximum Discharge C.F.S. For Water Year 13,000 February 24, 1957
Year of Record 24,500 December 21, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 367800
56-57 Water Year 248700

Station located 10.5 miles above mouth. Drainage area is 228 square miles. Clear Creek is a west-side tributary to the Sacramento River at Mile 237.1R above Sacramento. Period of record October 1940 to date. Records computed by U. S. Geological Survey.

TABLE 24

LITTLE COW CREEK NEAR INGOT

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1							167	108	70	19	10	8.4
2							133	196	64	19	10	8.4
3							122	133	58	18	9.6	8.4
4							114	116	54	18	9.6	7.6
5							108	108	52	18	9.6	8.0
6							106	99	47	16	9.6	8.0
7							96	93	46	16	10	7.6
8							92	101	46	16	10	7.2
9							87	101	50	16	9.6	6.5
10							86	109	48	15	10	6.2
11							83	96	45	14	10	6.9
12							95	84	41	14	10	7.2
13							95	90	39	14	11	7.6
14							524	99	38	14	10	7.6
15							161	83	35	13	10	8.0
16							140	76	32	13	11	8.4
17							180	76	31	12	11	8.4
18							223	600	30	12	11	8.8
19							252	483	28	12	11	8.4
20							223	326	28	12	11	8.4
21							178	260	28	13	11	8.4
22							156	199	25	12	11	7.6
23							144	165	22	12	11	7.6
24							134	142	22	11	11	7.6
25						*118	122	127	22	11	10	8.0
26						113	113	114	22	11	10	12
27						106	106	106	20	11	9.6	97
28						109	103	98	21	10	9.6	55
29						215	103	93	20	10	9.2	32
30						161	101	83	18	10	8.8	44
31		—			—	228	—	77	—	10	8.8	—
Mean							145	150	36.7	13.6	10.1	14.5
Ac-Ft							8622	9205	2186	837	623	863

Maximum Discharge C.F.S. For Water Year
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year
56-57 Water Year

Station located 1.5 miles northeast of Ingot near State Highway 299. Period of record March 25, 1957 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 25

COW CREEK NEAR MILLVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	60	285	121	116	162	1240	722	376	380	85	30	39
2	56	271	118	116	183	1060	550	546	348	82	30	39
3	53	205	118	113	171	1750	518	514	317	75	37	30
4	58	183	276	113	165	5360	478	416	286	64	41	27
5	64	174	264	111	162	5090	456	380	269	60	44	22
6	64	165	177	113	159	4850	444	362	246	60	42	31
7	65	156	148	113	165	2590	420	356	240	65	33	33
8	71	154	129	118	244	1780	400	373	226	66	30	33
9	76	151	129	118	274	1530	392	392	246	59	34	29
10	84	148	129	113	231	1170	376	388	265	60	32	23
11	225	145	137	126	214	1120	362	384	223	53	36	30
12	160	145	142	1090	218	2200	362	352	200	56	40	32
13	122	137	148	2140	214	1300	400	345	190	55	36	36
14	114	131	156	526	278	1030	1060	356	184	57	33	39
15	110	134	145	422	240	1920	610	345	180	50	27	35
16	104	131	137	338	224	3220	492	306	167	44	30	33
17	103	129	134	247	211	1810	523	292	157	39	27	40
18	106	129	129	211	198	1270	710	2110	141	43	27	41
19	120	118	129	198	198	1030	926	3290	131	49	27	38
20	116	118	124	602	195	854	1060	1590	124	47	28	39
21	108	121	124	564	701	764	764	1360	124	48	30	41
22	103	124	121	398	1380	656	640	1030	120	50	32	39
23	108	124	118	338	1300	590	580	866	114	45	34	40
24	132	124	116	319	4120	550	541	764	108	37	33	33
25	122	121	116	300	4660	532	492	674	94	35	32	31
26	139	118	116	247	3150	500	460	610	83	37	30	46
27	364	118	116	174	3970	469	428	550	85	39	34	761
28	197	118	116	198	1760	469	404	500	80	40	29	591
29	162	121	116	168		722	384	474	80	43	33	289
30	1080	121	113	165		854	380	444	89	42	32	184
31	566	—	116	165	—	674	—	408	—	33	33	—
Mean	162	147	138	325	898	1579	544	682	183	52.2	32.8	90.8
Ac-Ft	9940	8760	8490	19990	49880	97100	32400	41960	10900	3210	2020	5400

Maximum Discharge C.F.S. For Water Year 10,600 May 18, 1957
Year of Record 45,200 December 27, 1951

Total Discharge Ac.-Ft. For 56-Calendar Year 540100
56-57 Water Year 290000

Station located 4.2 miles southwest of Millville. Drainage area is 427 square miles. Cow Creek is an east-side tributary to the Sacramento River at Mile 228.8L above Sacramento. Period of record October 1949 to date. Recorda computed by U. S. Geological Survey.

TABLE 26

SACRAMENTO RIVER AT BALLS FERRY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	7240	7720	6390	4440	3430	30500	4620	6860	10400	9210	9060	8330
2	7020	7690	6410	4350	3190	43100	4420	7330	10400	9240	9090	8330
3	6970	7550	6410	4260	3090	46700	4320	7220	10400	9210	9060	8100
4	6890	7550	6540	4260	3090	49800	4190	7080	9950	9240	9060	7880
5	6910	7490	6600	4280	3090	47200	4140	7940	9740	9150	9060	7880
6	6910	7490	6460	4280	3090	45500	4040	7800	9590	9090	9030	7880
7	6970	7520	6410	4320	3110	31200	3910	7740	9000	9150	9030	7690
8	7050	7440	6360	4300	3190	22100	3780	7770	8530	9180	9030	7520
9	7100	7440	6340	4300	3250	16400	3660	8020	8500	9120	9030	7550
10	7130	7050	6310	4280	3250	11800	3640	9090	8500	9120	9060	7240
11	7300	6910	6340	4100	3230	11200	3620	9860	8410	9060	8360	7050
12	7300	6910	6340	5470	3230	13600	4390	9860	8350	9030	8380	7080
13	7220	6890	6360	8050	3230	10300	4570	10000	8270	9090	8330	7020
14	7190	6890	6340	5200	3270	9240	5540	10600	8270	9120	8350	7020
15	7190	6890	6340	5490	3270	10400	5060	10600	8270	9480	8350	7020
16	7160	6860	6360	4550	3210	13400	4870	10300	8270	9540	8350	7050
17	7160	6830	6340	4240	3250	12600	5440	10600	8270	9560	8350	7020
18	7160	6830	6340	4080	3230	11900	6570	20200	8270	9500	8330	7020
19	7130	6810	6310	3720	3230	11100	7440	35100	8220	9540	8350	6990
20	7160	6860	6340	5150	3210	10600	8270	30000	8190	9300	8330	7020
21	7160	6540	6360	4370	4080	10300	7520	21200	8160	9090	8330	6830
22	7100	6440	6060	3950	5490	9920	7050	14900	8160	9090	8350	6620
23	7130	6360	5860	3810	8970	8300	6810	12800	8160	9000	8330	6600
24	7130	6410	5830	3720	25000	7740	6680	13100	8080	9060	8350	6600
25	7190	6410	5830	3680	25000	6910	6410	13800	8130	9030	8350	6540
26	7380	6410	5810	3620	23100	5930	6290	13600	8500	9030	8300	6730
27	7660	6410	5510	3500	18600	5510	6080	13700	8500	9030	8300	8740
28	7380	6390	5320	3480	16000	5030	6010	10400	8560	9090	8330	9180
29	7380	6390	4730	3480		5180	6410	11100	9150	9090	8300	8410
30	9420	6360	4370	3430		4960	6830	10700	9120	9030	8350	8220
31	8270	—	4500	3430	—	4620	—	10500	—	9090	8350	—
Mean	7270	6925	6059	4309	6799	17190	5419	12250	8744	9179	8575	7439
Ac-Ft	447000	412000	372500	265000	377600	1057000	322500	753300	520300	564400	527300	442600

Maximum Discharge C.F.S. For Water Year 52,400 March 4, 1957
Year of Record 73,900 December 27, 1951

Total Discharge Ac.-Ft. For 56-Calendar Year 8568000
56-57 Water Year 6062000

Station located at Mile 224.5 above Sacramento. Period of record March 1945 to April 1952; March 1954 to date. Recorda computed by Department of Water Resources.

TABLE 27

NORTH FORK COTTONWOOD CREEK NEAR IGO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1		*23	20	23	52	720	159	177	146	48	14	11
2		20	22	23	52	491	156	192	136	48	15	11
3		18	20	23	50	510	149	184	130	46	14	10
4		17	23	24	48	646	146	177	118	43	14	10
5		16	23	24	48	675	136	166	99	40	15	9.2
6		16	23	25	48	728	121	146	96	33	15	9.2
7		16	23	25	52	542	110	115	94	32	15	8.5
8		15	24	26	58	478	107	156	89	30	14	8.5
9		15	25	25	54	491	107	184	86	29	14	8.5
10		15	23	26	52	318	104	173	86	29	13	8.5
11		16	24	30	50	369	99	163	84	26	12	8.5
12		16	24	79	52	653	99	159	81	25	12	9.2
13		15	23	326	56	436	96	223	79	24	12	9.2
14		15	24	214	52	353	143	227	74	26	12	9.2
15		15	23	274	41	562	124	192	66	24	12	9.2
16		15	23	96	41	562	136	181	54	23	11	11
17		17	23	77	41	728	368	181	52	20	11	11
18		17	23	77	41	624	628	769	46	20	11	12
19		17	23	79	46	562	359	472	56	20	11	11
20		18	23	192	70	522	535	653	72	18	11	11
21		18	23	94	266	396	364	549	58	18	11	10
22		19	23	74	199	289	323	442	54	18	11	10
23		19	23	68	1530	266	298	391	52	17	11	9.2
24		20	23	64	2840	261	266	328	52	16	11	10
25		19	23	64	1360	248	253	266	52	15	11	11
26		19	23	62	1490	235	227	240	52	17	11	20
27		20	23	56	1150	227	199	219	50	16	11	284
28		20	24	56	908	203	199	195	50	15	11	89
29		19	23	*52		184	188	177	50	14	12	79
30		20	23	*54		177	181	163	48	14	12	110
31		—	23	50	—	173	—	153	—	14	12	—
Mean		17.5	23.0	76.8	384	440	213	258	75.4	25.1	12.3	27.6
Ac-Ft		1041	1414	4725	21320	27030	12650	15890	4487	1543	758	1642

Maximum Discharge C.F.S. For Water Year 3,590 February 24, 1957 | Total Discharge Ac.-Ft. For 56-Calendar Year
Year of Record 3,590 February 24, 1957 | 56-57 Water Year

Station located 4.4 miles south of Igo, 4.4 miles southeast of Ono. Period of record November 1, 1956 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 28

COTTONWOOD CREEK NEAR COTTONWOOD

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	82	334	93	102	190	1800	720	631	720	176	82	68
2	67	250	95	124	190	1450	660	730	730	180	80	68
3	65	214	95	135	184	1210	622	740	640	170	75	70
4	69	193	97	119	175	1800	595	660	586	159	78	78
5	59	181	97	109	172	3570	568	622	518	152	72	80
6	59	172	97	104	169	3780	550	622	478	152	70	68
7	63	160	99	104	172	2480	550	568	456	142	78	68
8	67	149	93	109	190	1880	494	613	421	139	80	58
9	78	152	91	111	205	1700	456	820	414	133	80	54
10	93	178	93	109	199	1350	442	884	407	124	82	58
11	111	132	97	119	187	1190	428	939	379	121	80	65
12	124	124	104	175	184	2010	428	917	358	109	78	68
13	132	149	116	1140	187	1760	428	950	344	106	78	70
14	135	143	116	538	205	1450	687	1030	324	112	72	78
15	135	114	111	578	247	1700	790	873	312	112	70	75
16	132	114	84	363	250	1920	680	810	282	109	75	72
17	122	111	104	271	254	1990	790	770	260	103	70	78
18	116	111	102	238	274	1830	1990	1830	250	103	68	75
19	99	109	106	223	274	1610	1310	2080	240	100	70	75
20	109	106	106	656	264	1490	2390	2010	245	100	72	72
21	109	97	99	790	492	1350	1320	1830	235	103	75	72
22	114	104	95	391	652	1140	1070	1520	225	103	72	72
23	116	95	95	313	4000	1020	950	1340	216	97	72	72
24	127	99	99	271	10900	950	860	1040	212	85	68	72
25	138	99	102	244	9240	906	810	1110	212	85	68	70
26	132	97	99	235	4760	873	740	986	204	82	68	78
27	140	97	97	208	3940	840	650	906	196	80	62	329
28	149	97	97	202	2520	800	622	884	188	78	72	337
29	149	95	99	205		800	613	840	176	78	68	230
30	740	95	111	187		873	613	800	176	72	65	235
31	747	—	104	190	—	760	—	760	—	75	68	—
Mean	148	139	99.8	279	1453	1527	794	1010	345	114	3..	98.8
Ac-Ft	9080	8270	6130	17180	80680	95770	47250	62111	20560	7020	4500	5880

Maximum Discharge C.F.S. For Water Year 15,900 February 24, 1957 | Total Discharge Ac.-Ft. For 56-Calendar Year 844000
Year of Record 5.,300 March 1, 1941 | 56-57 Water Year 8440..

Station loc ted 2.4 miles above mouth. Drainage rea is 945 square miles. Cottonwood Creek is a west-side tribut ry to the Sacramento River at Mile 222.2R above Sacramento. Period of record October 1940 to date. Records computed by U. S. Geological Survey.

TABLE 29

BATTLE CREEK NEAR COTTONWOOD

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	211	308	244	233	244	747	540	445	606	308	190	178
2	214	293	233	233	380	705	460	552	596	300	187	178
3	217	282	233	233	271	831	445	508	562	290	187	178
4	214	282	240	230	254	1420	440	445	552	285	184	176
5	214	275	254	227	247	2010	445	455	546	280	190	178
6	211	271	244	227	244	1530	460	460	540	275	190	176
7	214	268	240	233	244	1090	440	480	524	270	192	176
8	220	264	233	230	254	867	435	486	496	265	187	176
9	224	264	230	227	250	909	426	486	518	260	187	173
10	230	264	230	224	247	777	426	475	535	255	187	173
11	268	261	247	233	247	681	430	450	470	250	187	173
12	247	257	257	328	240	964	426	426	450	244	184	176
13	233	257	254	670	244	717	430	416	445	237	184	176
14	230	257	261	324	250	623	681	435	421	230	184	184
15	227	250	257	268	254	601	562	426	398	224	181	190
16	230	254	247	257	257	885	496	403	385	224	184	190
17	224	257	250	250	261	687	496	408	376	214	184	192
18	224	250	247	250	257	618	518	1250	367	214	184	195
19	224	250	244	237	257	574	795	2870	372	211	181	198
20	224	237	237	540	261	557	693	1210	376	208	181	192
21	220	244	240	304	391	584	568	1090	362	208	178	190
22	224	247	233	278	380	513	518	921	344	208	181	192
23	214	250	227	254	615	475	486	807	328	204	181	190
24	240	240	240	250	2580	465	475	777	328	201	181	190
25	237	240	230	250	2090	450	435	717	328	201	181	190
26	261	233	237	250	1480	435	416	675	336	198	181	201
27	275	240	227	240	1400	421	412	681	324	198	181	775
28	264	240	227	250	945	426	403	675	324	198	176	651
29	250	240	237	244		496	421	723	324	198	178	376
30	447	240	233	240		535	445	657	324	195	178	304
31	394	—	233	244	—	535	—	596	—	187	178	—
Mean	236	257	240	273	537	746	487	690	429	234	184	230
Ac-Ft	14930	15300	14770	16780	29840	45870	29000	42460	25500	14360	11280	13660

Maximum Discharge C.F.S. For Water Year 8,140 February 19, 1957
Year of Record 12,800 February 6, 1942

Total Discharge Ac.-Ft. For 56-Calendar Year 416000
56-57 Water Year 273800

Station located 6.3 miles above mouth. Drainage area is 362 square miles. Battle Creek is an east-side tributary to the Sacramento River at Mile 221.5L above Sacramento. Period of record October 1940 to date. Records computed by U. S. Geological Survey.

TABLE 30

PAYNES CREEK NEAR RED BLUFF

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	2.2	5.3	8.1	8.6	10	71	36	22	13	0.1	0	0.2
2	2.2	11	8.1	8.6	11	71	32	28	12	.1	0	.1
3	2.2	9.1	8.1	8.6	10	64	30	30	12	.2	0	.1
4	2.0	8.6	8.1	8.1	9.6	288	29	26	7.3	.2	0	.1
5	2.0	8.1	8.6	8.1	9.6	798	28	25	4.8	.2	0	.1
6	1.8	8.1	8.6	8.1	10	434	26	24	4.1	.2	0	.1
7	2.2	8.1	8.6	8.1	10	205	22	24	4.1	.2	0	.1
8	2.4	7.6	8.6	8.1	11	129	18	20	3.8	.1	0	.1
9	2.4	8.1	8.1	8.1	11	142	17	16	5.5	0	0	.1
10	2.4	7.6	8.1	8.1	10	120	17	16	4.4	0	0	.1
11	2.7	8.1	8.1	9.1	10	87	17	16	3.8	0	.1	.1
12	2.7	8.1	8.6	36	10	222	17	15	3.2	0	.1	.2
13	2.4	7.6	8.6	260	10	131	18	14	3.2	0	.1	.2
14	2.4	6.6	8.6	40	9.6	90	23	13	3.5	0	.1	.2
15	2.4	7.1	8.6	19	10	80	23	12	3.2	0	.1	.2
16	2.7	7.1	8.6	16	10	205	20	12	3.2	0	.1	.2
17	2.4	7.1	8.6	14	10	216	22	12	3.0	0	.1	.2
18	2.7	7.1	8.1	12	10	146	24	14	2.8	0	.1	.2
19	2.7	7.6	8.1	13	10	104	62	52	2.8	0	.1	.2
20	2.7	7.6	8.1	97	10	81	124	87	3.0	0	.1	.2
21	2.4	7.6	7.6	29	11	83	80	106	3.0	0	.1	.2
22	2.2	8.1	7.6	18	12	61	58	73	2.0	0	.2	.2
23	2.2	8.1	7.6	15	39	52	47	53	.3	0	.2	.2
24	2.2	8.1	7.6	14	816	46	40	39	.2	0	.1	.2
25	2.2	8.1	7.6	13	588	41	34	30	.2	0	.2	.2
26	2.4	7.6	8.1	11	239	38	30	25	.2	0	.2	.3
27	2.7	8.1	8.1	11	213	34	27	20	.2	0	.2	85
28	2.7	8.1	8.1	11	110	32	25	17	.2	0	.2	176
29	2.7	8.1	8.1	11		41	24	17	.2	0	.1	68
30	4.2	8.1	8.1	10		52	23	16	.2	0	.2	29
31	2.4	—	8.1	10	—	39	—	15	—	0	.2	—
Mean	2.45	7.85	8.18	24.2	79.6	136	33.1	28.7	3.65	.04	.09	12.1
Ac-Ft	151	467	503	1490	4420	8340	1970	1760	217	2.6	5.8	719

Maximum Discharge C.F.S. For Water Year 1,490 February 24, 1957
Year of Record 5,130 December 19, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 65690
56-57 Water Year 20050

Station located 0.4 mile above mouth. Drainage area is 92.5 square miles. Paynes Creek is an east-side tributary to the Sacramento River at Mile 201.5L above Sacramento. Period of record October 1949 to date. Records computed by U. S. Geological Survey.

TABLE 31

SACRAMENTO RIVER NEAR RED BLUFF

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	8000	8810	6950	4980	4120	28800	6170	7940	11500	9600	9320	8620
2	7560	8620	7010	4870	4160	47400	5700	8460	11400	9660	9350	8590
3	7560	8370	6980	4870	4030	51900	5540	8540	11300	9520	9350	8510
4	7480	8320	7030	4830	3900	58600	5410	8180	11000	9490	9370	8270
5	7540	8240	7270	4790	3850	61300	5210	8810	10600	9460	9400	8180
6	7510	8240	7060	4760	3810	58800	5100	8870	10500	9430	9400	8160
7	7560	8210	7010	4760	3790	41800	5000	8790	10100	9490	9400	8050
8	7700	8160	6980	4760	3790	27700	4850	8730	9400	9460	9400	7750
9	7730	8100	6980	4740	3830	20600	4640	9150	9350	9430	9370	7730
10	7780	7830	6980	4720	3860	15500	4600	9980	9400	9430	9400	7510
11	7970	7590	6980	4700	3880	13400	4540	11200	9270	9400	8950	7320
12	8000	7560	7010	4850	3900	17000	5120	11100	9120	9430	8650	7320
13	7890	7560	7030	7320	3900	13900	5730	11200	9070	9460	8590	7350
14	7860	7510	7030	7920	3920	12100	6540	11800	8980	9460	8620	7320
15	7830	7540	7010	6720	3940	11800	6670	11700	8930	9490	8590	7400
16	7830	7510	7010	6170	3950	18000	6150	11400	8900	9860	8620	7430
17	7780	7510	7010	5410	3970	15300	6620	11200	6840	9810	8620	7430
18	7780	7480	7010	5060	4010	15200	8730	16600	8810	9810	8590	7400
19	7780	7430	6950	4830	4030	13900	9010	43200	8760	9810	8620	7380
20	7780	7460	7010	5520	4040	13100	11600	33300	8700	9690	8650	7380
21	7780	7210	6980	6270	4100	12600	9750	24400	8650	9430	8620	7290
22	7780	7010	6720	5520	4620	12000	8870	17100	8650	9430	8650	6980
23	7780	6980	6470	4950	5340	10600	8460	14500	8590	9400	8620	6950
24	7890	6980	6420	4720	19600	9600	8180	14400	8590	9370	8620	6930
25	7970	6980	6420	4600	47000	8870	7830	15100	8560	9370	8650	6900
26	8100	6950	6420	4500	28000	7780	7540	14800	8870	9320	8620	7060
27	8350	6950	6150	4350	28800	7030	7290	14600	8930	9320	8650	8870
28	8240	6950	5910	4230	19400	6620	7160	12200	8930	9290	8650	11400
29	8130	6950	5520	4210		6420	7350	12200	9460	9350	8620	9580
30	10200	6950	4950	4180		7080	7940	12000	9600	9320	8620	9090
31	10500	—	5060	4120	—	5910	—	11600	—	9290	8650	—
Mean	7988	7599	6688	5104	8412	20990	6777	13650	9427	9493	8878	7872
Ac-Ft	491200	452200	411200	313800	467200	1290000	403200	839100	561000	583700	545900	468400

Maximum Discharge C.F.S. For: Water Year 66,400 March 5, 1957; Year of Record 291,000 February 28, 1940

Total Discharge Ac.-Ft. For: 56-Calendar Year 10540000; 56-57 Water Year 6827000

Station located near the Iron Canyon dam site, Mile 198.6L above Sacramento. Drainage area is approximately 9,300 square miles (excluding Goose Lake Basin). Period of record April 1895 to date. Records computed by U. S. Geological Survey.

TABLE 32

REDBANK CREEK NEAR RED BLUFF

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1				0	3.2	48	14	8.8	1.7			
2				0	3.3	37	12	9.9	1.3			
3				0	2.8	31	11	8.8	1.1			
4		0		0	2.7	32	11	6.6	0.7			
5		0		0	2.7	68	10	6.1	0.5			
6		0		0	2.6	82	8.9	5.7	0.2			
7		0		0	2.8	47	8.9	5.2	0.1			
8		0		0	4.2	39	8.4	7.9	0.1			
9		0		0	3.5	36	8.4	10	0			
10		0		0	3.1	28	7.9	8.4	0			
11		0		0	2.7	26	8.0	6.6	0			
12		0	N	6.9	2.4	36	8.0	5.7	0	N	N	N
13		0		288	2.4	30	8.5	6.6	0			
14		0	0	25	2.3	26	12	5.2	0	0	0	0
15		0		26	2.2	381	9.6	4.8	0			
16		0		15	1.9	80	8.6	4.2	0			
17		0		12	1.9	95	26	4.2	0			
18		0		9.3	1.6	70	60	8.4	0			
19		0		8.7	1.6	51	28	9.9	0			
20		0		120	1.5	42	108	7.5	0			
21		0	F	27	2.3	33	42	7.0	0	F	F	F
22		0	L	16	3.1	27	29	4.8	0	L	L	L
23		0	0	12	994	25	25	4.5	0	0	0	0
24		0		9.1	1690	23	20	4.2	0			
25		0	W	7.7	401	22	17	3.9	0	W	W	W
26		0		7.9	143	19	15	3.0	0			
27		0		5.4	93	17	13	3.0	0			
28		0		4.8	63	16	12	2.4	0			
29		0		4.2		19	10	2.4	0			
30		0		3.3		20	9.3	2.2	0			
31		—		3.1	—	16	—	2.2	—			—
Mean			0	19.7	123	49.1	19.0	5.8	0.2	0	0	0
Ac-Ft			0	1213	6825	3019	1130	357	11	0	0	0

Maximum Discharge C.F.S. For: Water Year 2,940 February 24, 1957; Year of Record 5,610 February 21, 1956

Total Discharge Ac.-Ft. For: 56-Calendar Year; 56-57 Water Year

Station located approximately 15 miles above mouth. Formerly published as "Redbank Creek near Foothills." Redbank Creek is a west-side tributary to the Sacramento River at Mile 191.2R above Sacramento. Period of record February 1948 to July 1949 (fragmentary); April 1950 to April 1956; November 4, 1956 to date. Records computed by Department of Water Resources.

TABLE 33

ANTELOPE CREEK NEAR RED BLUFF

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	39	53	43	44	47	242	112	100	114	44	35	35
2	40	50	42	44	48	238	102	138	102	43	35	35
3	43	46	43	44	46	214	97	120	94	43	35	34
4	40	44	44	44	45	282	96	106	88	42	35	34
5	40	43	48	44	46	498	94	103	83	42	36	34
6	40	42	45	44	46	490	96	98	79	41	36	34
7	40	42	43	44	48	352	94	98	76	41	36	34
8	42	42	42	46	54	275	91	100	72	41	36	34
9	42	42	42	46	52	310	88	104	74	41	36	33
10	43	42	43	45	51	260	88	108	79	40	36	33
11	39	42	44	48	50	216	88	96	70	40	35	34
12	44	41	45	145	50	363	88	90	66	39	35	35
13	43	41	45	430	51	255	90	84	64	39	35	36
14	42	41	45	119	52	203	176	87	63	39	34	36
15	41	41	45	77	51	195	152	84	60	39	34	36
16	39	42	45	65	53	367	132	77	58	38	34	36
17	39	42	44	57	52	370	139	75	56	37	34	36
18	39	42	44	53	50	268	138	228	54	37	34	37
19	40	42	44	53	50	205	218	415	54	37	34	37
20	40	42	44	191	48	172	205	768	53	37	34	37
21	39	42	44	106	62	156	170	473	51	37	34	36
22	39	42	43	74	83	136	151	340	50	38	34	36
23	40	40	44	62	219	122	134	275	49	37	34	36
24	45	42	44	57	1840	111	125	230	48	38	33	35
25	41	42	44	56	958	104	115	199	47	38	33	36
26	42	42	44	53	750	100	109	174	46	37	34	40
27	47	42	44	50	570	94	104	156	45	36	34	668
28	44	43	44	50	322	91	102	141	45	36	35	346
29	43	43	43	47		100	102	143	45	35	35	139
30	84	43	43	47		119	100	125	44	35	35	81
31	76	—	43	47	—	112	—	115	—	35	36	—
Mean	43.7	42.8	43.9	75.2	207	226	120	176	64.3	38.8	34.7	71.8
Ac-Ft	2690	2540	2700	4630	11490	13920	7130	10810	3830	2380	2120	4270

Maximum Discharge C.F.S. For Water Year 3,550 February 24, 1957; Year of Record 11,500 February 22, 1956

Total Discharge Ac.-Ft. For 56-Calendar Year 133000; 56-57 Water Year 68520

Station located 9.7 miles above mouth. Drainage area is 124 square miles. Period of record October 1940 to date. Records computed by U. S. Geological Survey.

TABLE 34

ANTELOPE CREEK NEAR MOUTH

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	27	7.0	2.4	28	4.8	*67	*12	26	16	1.3	1.3	4.8
2	23	6.7	2.4	28	4.8	*60	*10	28	13	1.3	1.0	1.3
3	26	7.0	2.4	29	5.3	*51	*14	32	12	2.2	1.5	2.7
4	29	2.4	2.4	33	4.8	*122	*13	30	13	1.5	1.5	7.6
5	24	1.6	2.2	33	4.4	*240	*12	28	15	0.5	1.2	6.1
6	28	1.6	2.4	33	*4.4	*240	*12	28	15	0.6	1.9	6.1
7	30	1.5	2.4	33	*4.7	*155	*12	20	13	0.7	2.7	6.1
8	30	1.6	2.2	34	*6.2	*110	*12	16	11	0.7	2.0	4.1
9	29	1.7	2.2	35	*6.0	*130	*12	19	13	0.6	2.0	4.1
10	33	1.9	2.4	34	*5.8	*69	*10	19	9.1	0.8	1.6	3.5
11	17	2.2	2.0	36	*5.6	*43	*9.1	17	8.8	1.6	1.7	6.4
12	8.5	2.5	2.2	69	*5.6	*77	*8.5	16	7.8	3.7	3.9	8.2
13	9.8	2.5	2.2	102	*5.9	*45	*8.8	16	8.5	2.5	2.7	6.4
14	13	2.4	2.4	49	*6.2	*32	*13	17	5.8	2.0	2.7	5.1
15	12	2.4	2.5	25	*6.0	*28	*21	16	6.7	1.5	3.3	10
16	9.1	2.4	5.1	17	*6.4	*103	*19	16	8.8	2.0	9.1	16
17	12	2.5	22	13	*6.2	*81	*21	18	5.6	2.7	5.3	16
18	16	3.1	26	9.5	*5.8	*57	*27	31	5.6	3.7	5.8	17
19	20	3.1	26	7.0	*5.8	*39	*37	*190	5.3	3.1	6.4	15
20	19	3.1	27	19	*5.2	*30	*58	*500	4.6	2.2	7.2	11
21	21	2.9	28	27	*10	*24	*52	*260	5.1	2.5	6.1	15
22	24	2.9	27	18	*18	*22	*41	91	4.8	2.9	7.0	16
23	24	2.7	26	14	*31	*18	*36	44	3.9	2.9	7.8	17
24	30	2.7	26	10	*1470	*16	*32	36	4.6	3.7	2.7	14
25	30	2.7	25	8.5	*750	*14	*28	31	4.1	2.7	1.7	20
26	33	2.7	26	8.2	*560	*12	29	29	2.9	2.5	3.7	24
27	35	2.5	26	6.7	*320	*11	26	27	2.9	1.7	7.2	*124
28	33	2.5	27	6.1	*118	*9.5	24	24	2.0	2.2	8.5	*104
29	33	2.4	27	5.6		*9.8	26	21	1.0	1.7	6.1	*76
30	30	2.4	27	4.8		*19	24	20	1.3	1.5	2.0	*65
31	19	—	26	4.8	—	*13	—	18	—	1.9	4.6	—
Mean	23.5	2.9	13.9	25.2	121	62.8	22.0	54.3	7.7	2.0	3.9	21.1
Ac-Ft	1443	170	856	1548	6718	3862	1308	3340	457	122	242	1255

Maximum Discharge C.F.S. For Water Year; Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 72860; 56-57 Water Year 21320

Station located approximately 0.3 mile above mouth. Antelope Creek is an east-side tributary to the Sacramento River at Mile 182.6L above Sacramento. Backwater from the Sacramento River at times affects the stage-discharge relationship of this station. Period of record June 1947 to December 1948; April 1949 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 35

NORTH FORK MILL CREEK NEAR MOUTH

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	3.7	7.8	12	13	3.1	4.6	3.1	3.7	2.9	1.9	0.6	2.4
2	5.0	7.0	11	13	2.6	4.4	3.8	4.2	2.1	1.1	0.9	2.2
3	4.8	6.5	11	13	2.5	4.4	3.8	4.2	2.6	0.9	0.9	1.2
4	5.8	6.7	11	14	2.4	5.5	5.0	4.0	2.8	0.6	0.4	1.2
5	4.4	5.0	11	14	2.4	5.8	3.8	4.2	1.7	0.6	0.9	2.1
6	1.4	3.7	11	13	2.2	4.6	3.7	4.8	1.6	0.4	0.8	1.6
7	2.1	5.0	11	10	2.9	4.6	4.2	5.0	2.1	0.2	0.7	1.2
8	1.3	7.0	11	10	3.1	4.6	4.6	5.5	1.3	0.2	1.4	1.3
9	2.0	6.7	11	10	2.9	4.6	4.2	6.7	3.3	0.4	1.2	0.8
10	2.2	7.2	11	10	2.9	4.4	4.2	7.2	2.6	1.0	1.2	0.9
11	3.3	8.1	12	10	2.8	4.2	5.0	5.0	2.1	0.2	1.2	2.1
12	3.8	9.1	13	13	2.8	4.6	5.5	5.8	0.9	0.2	0.6	1.9
13	2.4	9.4	13	14	2.8	3.7	3.8	6.0	1.1	0.6	0.7	0.8
14	2.5	10	14	9.1	3.1	3.3	7.5	7.0	0.5	0.8	1.6	0.8
15	2.8	9.7	14	8.4	3.1	2.9	5.3	5.5	0.4	0.5	2.5	0.5
16	3.3	7.0	13	8.1	3.1	4.4	4.2	3.7	0.6	0.6	2.9	0.5
17	3.3	4.6	13	7.8	3.1	3.1	6.5	2.9	0.4	0.5	2.0	1.7
18	3.5	4.6	13	7.5	3.5	2.6	5.0	4.0	0.2	0.7	3.1	2.2
19	4.8	4.6	13	7.2	3.5	2.5	5.3	4.4	0.5	1.3	3.1	2.4
20	4.4	4.4	13	8.1	3.1	2.1	4.4	5.5	1.4	1.2	2.9	2.2
21	3.7	4.6	13	5.0	3.1	2.5	3.3	4.8	0.9	0.6	2.2	1.9
22	5.0	4.6	13	3.8	2.9	2.1	2.9	3.7	1.4	0.5	2.5	1.4
23	4.6	4.4	13	4.2	3.7	2.0	2.8	2.8	1.1	0.4	2.4	1.5
24	4.4	4.4	13	3.3	7.5	2.1	2.6	3.5	2.6	1.0	1.7	2.1
25	3.7	4.4	13	3.5	4.4	2.0	2.2	2.6	2.4	1.3	1.5	2.1
26	4.0	4.4	13	3.7	4.8	1.9	2.0	2.0	2.2	1.7	0.6	1.2
27	5.8	7.2	13	3.7	3.8	1.7	2.0	2.0	2.5	1.2	0.6	5.3
28	5.0	11	13	3.5	3.8	1.5	4.4	3.3	2.1	0.8	0.4	2.5
29	4.8	11	13	3.5		1.6	3.8	3.5	2.2	0.4	0.6	2.5
30	3.8	11	13	3.3		2.2	3.3	3.8	2.4	0.5	1.5	1.3
31	4.8	—	13	3.3	—	2.1	—	3.3	—	0.4	2.0	—
Mean	3.8	6.7	12.4	8.2	3.3	3.3	4.1	4.3	1.7	0.7	1.5	1.7
Ac-Ft	231	399	764	504	182	204	242	267	101	45	90	103

Maximum Discharge C.F.S. For	Water Year	19 January 13, 1957	Total Discharge Ac.-Ft. For 56-Calendar Year
	Year of Record		56-57 Water Year 3132

Station located approximately 0.5 mile above mouth. North Fork Mill Creek is an east-side tributary to the Sacramento River at Mile 179.3L above Sacramento. Period of record April to December 1948; April 1949 to date. Records computed by Department of Water Resources.

TABLE 36

MILL CREEK NEAR LOS MOLINOS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	122	156	113	109	120	592	316	360	477	233	122	108
2	122	146	113	109	122	568	277	428	458	224	120	105
3	122	141	113	109	115	522	277	357	434	214	120	105
4	122	143	115	109	115	600	288	334	416	208	120	105
5	120	143	124	109	115	1030	294	368	419	201	120	105
6	117	141	120	106	115	1000	308	386	413	195	122	105
7	117	141	117	106	117	779	280	401	392	190	120	105
8	122	138	113	109	129	600	269	389	389	182	120	102
9	122	141	115	111	124	710	272	366	386	178	118	102
10	124	138	115	113	120	554	272	342	380	170	118	102
11	153	136	126	120	120	470	266	322	348	168	118	102
12	134	131	143	231	120	658	260	316	336	160	118	102
13	126	131	143	547	131	502	255	308	345	158	115	105
14	122	126	143	216	153	422	419	319	308	158	115	102
15	120	124	131	164	156	413	331	302	288	155	115	102
16	117	124	126	143	161	710	300	305	269	150	115	105
17	117	122	122	134	158	592	331	336	263	148	112	105
18	117	122	120	129	158	461	339	1380	258	145	112	108
19	120	120	120	131	156	389	392	1420	266	142	112	108
20	115	117	117	249	158	360	363	1310	266	140	112	105
21	115	117	117	174	194	368	331	900	263	138	112	105
22	113	117	113	143	299	311	316	714	258	138	112	105
23	122	117	113	134	909	283	302	578	252	138	110	105
24	124	117	113	131	3840	263	297	516	255	135	108	102
25	122	117	111	131	2140	258	286	488	252	130	108	102
26	148	115	111	124	1910	246	283	480	255	130	110	108
27	161	115	109	115	1420	241	286	494	255	130	108	1290
28	134	115	109	124	810	246	302	498	255	125	108	490
29	126	113	109	117		300	331	494	252	125	108	193
30	376	113	111	117		302	351	477	244	122	108	142
31	222	—	109	120	—	302	—	464	—	122	108	—
Mean	136	128	119	148	507	486	306	521	322	160	114	161
Ac-Ft	8360	7610	7290	9090	28140	29860	18240	32040	19140	9820	7030	9580

Maximum Discharge C.F.S. For	Water Year	6,140 February 24, 1957	Total Discharge Ac.-Ft. For 56-Calendar Year 288500
	Year of Record	23,000 December 11, 1937	56-57 Water Year 186200

Station located 5.5 miles above mouth. Drainage area is 134 square miles. Period of record September 1909 to September 1913 (fragmentary); October 1928 to date. Records computed by U. S. Geological Survey.

TABLE 37

MILL CREEK NEAR MOUTH

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb	March	April	May	June	July	Aug.	Sept.
1		146	99	88	110	718	269	218	317	78	*3.8	
2		137	101	88	115	680	249	265	305	68	*2.7	*0.7
3		128	99	87	111	622	217	260	285	57		
4	*16	124	101	89	111	660	212	217	265	45		*0.5
5		125	113	88	111	870	202	215	266	37		
6		128	112	87	110	943	194	235	267	30		
7		134	107	88	108	832	176	254	250	31		
8	*26	122	102	91	119	687	161	254	246	29		
9	*25	124	102	90	116	733	159	247	249	19		
10	*34	121	101	87	111	632	161	227	238	12		
11	*44	118	112	95	108	540	154	207	216	12	*1.2	
12		116	130	208	105	688	148	189	198	11		
13		119	128	513	113	566	146	176	206	9.4		
14	*37	115	134	232	143	483	270	174	175	8.1		
15		112	119	160	145	449	235	179	155	7.3		
16		113	113	138	145	665	189	162	138	5.5		*0.5
17	*29	116	110	123	142	642	205	169	132	5.5		
18	*28	116	108	117	146	509	229	884	129	4.9		
19	*24	115	105	114	145	427	251	970	133	4.9		
20	20	112	102	233	143	389	287	697	132	5.9		
21	19	112	102	175	170	391	251	657	124	5.9		
22	17	112	97	138	262	333	232	512	117	6.6		
23	22	108	90	126	606	308	217	409	112	5.9	*0.6	
24	27	108	90	122	2980	282	207	353	111			
25	28	108	89	124	2040	270	188	332	112			
26	42	110	86	120	1550	248	180	323	105			
27	70	107	86	111	1430	222	163	323	101		*0.6	990
28	46	104	86	119	935	207	170	323	103	*3.8		485
29	59	101	86	113		216	192	329	102			224
30	292	98	86	111		262	211	317	91			146
31	177	—	89	111	—	251	—	305	—			
Mean	42.4	117	103	135	444	507	204	335	179	7.1	1.1	62.0
Ac-Ft	2610	6934	6317	8303	24650	31190	12110	30590	10670	1050	69	3687

Maximum Discharge C.F.S. For Water Year 5,640 February 24, 1957
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 240600
56-57 Water Year 128200

Station located 500 feet below U. S. Highway 99E bridge. Mill Creek is an east-side tributary to the Sacramento River at Mile 179.0L above Sacramento. Period of record May 1947 to December 1948; April 1949 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 38

ELDER CREEK AT GERBER

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	0			0	6.5	202	79	59	31			
2	0			0	5.8	167	70	70	30			
3	0			0	5.1	135	67	61	26			
4	0			0	4.0	142	65	50	21			
5	0			0	4.0	202	63	48	20			
6	0			0	4.0	215	63	46	18			
7	0			0	4.5	276	61	44	17			
8	0			0	7.2	151	56	50	17			
9	0			0	9.6	148	54	86	17			
10	0			0	8.0	126	50	74	16			
11	0			0	6.5	112	48	67	13			
12	0			0	5.1	151	48	61	11			
13	0	N	N	299	5.1	132	46	59	9.6	N	N	N
14	0	0	0	59	8.0	112	70	63	8.8	0	0	0
15	0			52	14	277	70	61	8.1			
16	0			34	14	306	61	48	6.8			
17	0	F	F	21	14	236	72	44	5.6	F	F	F
18	0	L	L	14	17	196	237	81	3.9	L	L	L
19	0	0	0	9.6	16	160	151	106	3.4	0	0	0
20	0	W	W	283	16	142	179	88	2.9	W	W	W
21	0			94	18	129	129	88	2.1			
22	0			43	26	112	104	79	1.7			
23	0			28	1970	101	93	72	.9			
24	0			21	3070	93	91	65	.1			
25	0			17	1400	86	81	59	0			
26	0			17	545	86	76	58	0			
27	0			10	413	81	70	48	0			
28	0			11	270	79	65	42	0			
29	0			8.9		84	63	40	0			
30	.1			6.5		104	61	39	0			
31	0	—		6.5	—	84	—	35	—			—
Mean	0	0	0	33.4	282	149	81.4	60.8	9.70	0	0	0
Ac-Ft	0.2	0	0	2050	15640	9180	4850	3740	577	0	0	0

Maximum Discharge C.F.S. For Water Year 4,090 February 24, 1957
Year of Record 10,400 December 22, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 98150
56-57 Water Year 36040

Station located 1.0 mile west of Gerber, 3.5 miles above mouth. Drainage area is 142 square miles. Elder Creek is a west-side tributary to the Sacramento River at Mile 178.5R above Sacramento. Period of record October 1949 to date. (Prior records are available at site approximately 20 miles upstream.) Records computed by U. S. Geological Survey.

TABLE 39

THOMES CREEK AT PASKENTA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	6.6	84	16	18	33	745	378	354	289	39	9.6	4.0
2	6.6	67	15	16	35	612	336	366	262	38	8.9	4.0
3	6.6	67	15	16	28	534	348	289	230	36	8.2	4.0
4	6.6	69	15	15	32	653	372	262	211	33	7.5	3.6
5	6.6	67	16	15	32	1640	390	289	193	30	7.5	3.6
6	6.6	60	21	14	32	1490	408	426	171	28	7.5	3.6
7	7.0	52	19	14	33	1080	336	366	156	27	7.5	3.2
8	7.8	49	14	18	38	829	295	378	152	25	7.5	3.2
9	7.8	45	16	15	35	759	278	426	137	24	7.5	3.2
10	8.2	43	19	12	35	619	272	354	128	23	7.5	3.2
11	8.2	42	50	22	35	560	262	301	115	22	6.8	3.2
12	9.0	36	82	62	36	794	256	272	112	21	6.8	3.2
13	9.5	33	64	204	49	632	236	272	106	20	6.8	2.8
14	8.6	30	56	88	165	554	662	272	98	21	6.8	2.8
15	8.2	28	45	71	147	612	426	256	90	22	6.8	2.8
16	8.2	27	40	58	165	554	360	241	85	20	6.8	2.8
17	8.2	27	35	47	215	502	402	262	78	18	6.1	2.8
18	8.2	25	33	40	219	426	432	1350	74	17	6.1	2.4
19	8.2	25	30	63	180	426	408	984	72	17	6.1	2.4
20	8.2	22	28	456	156	450	372	794	70	17	6.1	2.0
21	8.2	21	27	114	168	450	324	697	67	17	6.1	2.0
22	8.2	21	24	71	394	390	307	606	63	16	5.4	1.6
23	8.6	21	22	60	2310	348	301	502	57	15	5.4	1.6
24	11	19	22	49	5660	318	289	432	54	13	5.4	1.2
25	12	19	21	45	3860	342	278	396	52	13	5.4	1.2
26	12	18	19	40	2660	372	262	372	49	13	5.4	1.2
27	23	18	19	52	1670	372	272	372	47	12	5.4	100
28	16	18	18	38	968	378	301	366	42	11	4.7	106
29	15	18	18	35		438	348	354	49	11	4.7	67
30	644	16	18	40		444	360	342	45	10	4.7	106
31	184	—	18	33	—	414	—	307	—	9.6	4.0	—
Mean	35.4	36.2	27.6	59.4	692	604	342	428	112	20.6	6.48	15.0
Ac-Ft	2180	2160	1700	3650	38460	37160	20370	26300	6650	1270	399	894

Maximum Discharge C.F.S. For	Water Year	7,870 February 24, 1957	Total Discharge Ac.-Ft For	56-Calendar Year	311100
	Year of Record	23,500 December 21, 1955		56-57 Water Year	141200

Station located 0.3 mile above Paskenta. Drainage area is 188 square miles. Thomes Creek is a west-side tributary to the Sacramento River at Mile 173.2R above Sacramento. Period of record January 1921 to date. Records computed by U. S. Geological Survey.

TABLE 40

DEER CREEK NEAR VINA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	118	176	120	115	122	745	370	260	288	124	100	92
2	118	158	120	115	125	725	320	402	264	122	100	92
3	118	156	120	115	120	661	302	366	247	120	98	91
4	118	147	122	115	118	730	302	309	230	118	98	91
5	120	143	131	115	118	1250	295	284	218	116	98	91
6	118	139	125	113	120	1340	295	270	206	116	98	89
7	118	137	124	115	125	1080	284	264	200	115	98	89
8	122	137	118	118	149	838	270	274	194	113	98	88
9	124	135	120	113	135	922	260	288	189	113	98	88
10	125	135	120	109	131	775	253	284	197	111	98	88
11	149	133	133	122	131	666	247	264	184	111	97	89
12	139	131	153	273	131	790	240	247	174	109	97	91
13	127	129	143	704	139	685	244	240	169	109	95	91
14	125	127	139	288	158	602	504	250	164	111	95	91
15	124	125	129	189	169	589	386	257	160	111	95	91
16	124	125	125	158	171	780	338	227	156	109	94	91
17	124	125	124	141	171	652	438	218	151	108	94	92
18	124	125	122	135	171	558	458	825	147	108	94	94
19	125	125	122	133	167	504	454	1100	145	106	94	94
20	124	122	120	303	169	466	434	1090	143	106	94	92
21	124	122	120	189	187	474	402	874	139	106	94	91
22	124	124	116	151	237	402	382	730	137	106	94	91
23	133	124	116	143	1170	362	350	625	135	105	94	89
24	137	124	116	135	4950	338	323	544	133	103	92	89
25	131	122	116	135	2800	323	302	470	129	103	92	89
26	149	122	115	129	1990	309	284	426	127	103	94	98
27	164	122	115	118	1590	298	270	386	125	103	94	998
28	145	122	115	127	994	288	260	354	125	103	92	354
29	133	120	115	122		323	257	374	125	101	92	164
30	307	120	115	122		354	264	326	125	100	92	131
31	298	—	115	122	—	354	—	316	—	100	92	—
Mean	140	132	123	164	598	619	326	424	171	109	95.3	134
Ac-Ft	8590	7840	7550	10080	33240	38050	19410	26070	10170	6720	5860	7950

Maximum Discharge C.F.S. For	Water Year	7,470 February 24, 1957	Total Discharge Ac.-Ft For	56-Calendar Year	334800
	Year of Record	23,800 December 10, 1937		56-57 Water Year	181500

Station located 7.9 miles northeast of Vina, 0.5 miles above a diversion dam. Drainage area is 200 square miles. Period of record October 1911 to December 1915; March 1920 to December 1937; January 1939 to date. Records computed by U. S. Geological Survey.

TABLE 41

DEER CREEK AT HIGHWAY 99E

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	5.3	123	73	77	113	602	389	187	144	3.4	2.1	4.9
2	3.8	105	73	77	118	558	294	372	144	2.6	2.1	3.8
3	4.5	94	73	81	111	478	271	327	120	2.2	2.4	1.8
4	3.8	88	75	85	106	572	263	246	104	2.2	2.4	1.6
5	3.0	88	78	83	106	1440	250	227	83	2.2	2.6	1.4
6	2.1	82	77	83	106	1870	242	—	68	1.8	2.4	0.7
7	2.3	82	77	87	108	1420	227	—	77	1.6	2.1	0.2
8	1.4	79	76	91	133	951	205	—	77	1.8	2.4	0.2
9	1.2	79	75	93	118	1090	187	*247	68	1.4	2.2	0.2
10	0.7	79	76	91	111	863	177	—	81	1.2	1.9	0.5
11	6.7	82	76	99	111	663	171	—	70	1.0	1.6	0.4
12	16	82	81	242	108	891	147	267	59	1.0	2.1	0.4
13	12	82	78	722	115	720	153	*206	64	1.0	2.8	0.8
14	9.0	82	78	282	136	565	495	153	60	1.0	2.2	4.1
15	9.0	79	77	171	144	531	337	150	45	1.3	1.8	3.6
16	8.2	82	75	141	147	1240	263	120	39	1.4	2.1	3.6
17	8.2	82	75	131	150	763	406	113	22	1.4	3.0	3.4
18	9.0	82	74	125	150	594	478	527	17	1.6	3.2	6.8
19	9.7	79	74	125	147	497	441	853	13	1.8	2.8	7.1
20	11	79	74	310	150	435	435	816	15	1.6	2.4	6.1
21	11	—	74	201	168	478	373	663	14	1.5	2.1	5.2
22	9.7	—	74	153	205	378	342	524	14	1.6	2.6	5.5
23	14	—	74	139	1100	332	294	429	9.1	1.5	3.4	3.4
24	25	*78	74	131	8650	312	263	347	10	1.5	4.3	2.2
25	23	—	74	131	3990	312	*238	298	7.5	1.4	4.1	1.5
26	32	—	74	128	2770	298	*227	246	7.5	1.4	2.6	4.1
27	49	77	75	113	1950	285	*212	212	4.1	1.4	2.8	1070
28	36	75	75	118	951	267	*194	187	2.8	1.4	1.8	435
29	32	73	75	113		298	184	208	3.0	1.8	0.8	212
30	132	72	75	113		352	187	171	3.2	2.4	1.4	128
31	222	—	74	113	—	332	—	162	—	2.4	4.6	—
Mean	23.0	82.5	75.3	150	795	658	278	306	48.2	1.7	2.5	64.0
Ac-Ft	1413	4909	4627	9221	44180	40440	16550	18830	2867	103	153	3805

Maximum Discharge C.F.S. For Water Year
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 690300
56-57 Water Year 147100

Station located 300 feet below U. S. Highway 99E bridge. Deer Creek is an east-side tributary to the Sacramento River at Mile 168.5L above Sacramento. Period of record May 1948 to June 1949 (fragmentary); December 1949 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 42

SACRAMENTO RIVER AT VINA BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	8510	9310	7380	5700	4600	25900	8280	9230	12800	10100	9630	8750
2	7840	8940	7430	5600	4660	47400	7790	9680	12600	10100	9600	8810
3	7790	8700	7380	5540	*4620	54700	7530	10000	12400	10000	9600	8810
4	7770	8590	7430	5470	*4580	60800	7400	9520	12100	9880	9600	8380
5	7770	8460	7620	5410	*4560	68900	7110	9740	11600	9880	9630	8330
6	7720	8430	7550	5390	*4530	67700	7070	10100	11400	9850	9600	8310
7	7770	8460	7480	5310	*4470	55400	6850	9990	11100	9880	9600	8310
8	7870	8430	7430	5290	*4450	35900	6740	9990	10400	9880	9580	7990
9	7890	8330	7430	5290	*4430	26900	6510	10400	10100	9850	9580	7940
10	7890	8230	7400	5290	*4420	20200	6400	10800	10200	9850	9550	7840
11	8090	7920	7430	5310	*4400	16300	6330	11900	10000	9820	9440	7530
12	8310	7890	7500	5640	*4380	19800	6490	12100	9910	9820	8990	7530
13	8090	7890	7550	12200	*4380	18200	6970	12100	9880	9850	8990	7530
14	8090	7870	7530	9180	*4450	15000	7790	12600	9770	9940	8990	7550
15	8060	7870	7530	6880	4470	14000	8960	12700	9710	9990	8990	7550
16	8040	7870	7500	6460	4540	23600	7990	12300	9550	10200	8960	7580
17	8040	7820	7500	5700	4540	19200	8210	12100	9550	10200	8940	7550
18	8040	7790	7550	5450	4600	19200	9940	15600	9420	10200	8990	7580
19	8060	7750	*7380	5310	4600	17000	10500	42700	9360	10200	8990	7580
20	8010	7770	*7330	6830	4620	15800	13500	40200	9340	10200	8990	7550
21	8040	7670	*7260	7040	4780	15400	12200	33700	9280	9880	8960	7580
22	7960	7430	*7180	5810	6580	14500	10800	23000	9280	9880	8940	7230
23	7940	7400	*7110	5330	11700	13400	10200	17900	9230	9800	8940	7210
24	8040	7330	*7040	5130	40500	11600	9800	16500	9200	9740	8910	7160
25	8040	7310	*6970	4970	66600	11000	9440	17300	9120	9710	8910	7160
26	8260	7360	*6920	4910	38400	10000	9040	17000	9260	9710	8860	7280
27	8410	7360	*6780	4780	40000	9020	8750	16600	9360	9660	8830	10700
28	8410	7430	6460	4740	25700	8670	8620	16100	9340	9660	8830	13800
29	8330	7430	6330	4700		8330	8510	12400	9680	9710	8780	11100
30	9100	7400	5790	4620		9390	9180	13600	10100	9660	8810	9990
31	14900	—	5770	4600	—	8180	—	13000	—	9660	8810	—
Mean	8293	7948	7192	5803	11590	24560	8497	15510	10170	9895	9155	8274
Ac-Ft	509900	472900	442200	356800	643800	1510000	505600	953800	605000	608400	562900	492300

Maximum Discharge C.F.S. For Water Year 73,900 February 25, 1957
Year of Record 146,000 December 28, 1951

Total Discharge Ac.-Ft. For 56-Calendar Year 12470000
56-57 Water Year 7664000

Station located at Mile 166.5R above Sacramento. Period of record April 1945 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 43

SACRAMENTO RIVER AT HAMILTON CITY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	7870	9740	6850	5480	4610	23500	8160	6930	10900	7790	7260	6880
2	7160	8950	6850	5460	4670	40300	7580	7240	10700	7790	7260	6880
3	7080	8610	6750	5390	4480	48800	7130	7820	10500	7770	7180	6880
4	7030	8380	6960	5250	4300	53700	6730	7400	10200	7690	7260	6650
5	7060	8360	7180	5230	4240	61100	6270	7370	9770	7610	7340	6570
6	7030	8330	7110	5180	4220	60900	5930	7930	9530	7580	7240	6570
7	7080	8300	6980	5180	4260	53700	5710	7900	9320	7610	7210	6620
8	7180	8190	6980	5180	4320	36900	5480	7870	8640	7610	7260	6500
9	7210	8160	6980	5160	4340	27800	5000	8220	8300	7580	7260	6390
10	7260	8110	7060	5160	4380	22100	4740	8730	8330	7550	7210	6420
11	7370	7790	7340	5200	4340	17700	4510	9770	8220	7550	7340	6220
12	7580	7740	7450	5430	4340	19100	4360	10200	7950	7550	6670	6220
13	7530	7690	7480	11100	4340	19300	4960	10200	7820	7500	6600	6270
14	7370	7550	7450	10700	4360	16100	5340	10500	7660	7580	6570	6390
15	7370	7580	7450	7240	4530	14800	7180	10800	7610	7550	6550	6420
16	7320	7550	7400	6980	4610	22000	6370	10300	7550	7900	6500	6440
17	7320	7550	7400	6000	4610	19500	6270	10100	7480	7820	6520	6520
18	7290	7480	7400	5570	4700	19600	7790	11900	7370	7820	6550	6500
19	7260	7450	7320	5390	4740	17400	9240	34800	7340	7850	6550	6520
20	7290	7500	7370	6340	4720	16300	11500	36900	7210	7820	6550	6550
21	7260	7450	7370	7740	4780	15600	11200	31500	7160	7530	6570	6550
22	7320	7060	7290	6270	6320	14900	9650	22000	7060	7500	6600	6290
23	7320	6980	6900	5500	10000	14000	8870	16700	7080	7450	6600	6120
24	7320	6980	6800	5180	*32600	12200	8330	14800	7080	7400	6570	6120
25	7450	7010	6800	5050	*62300	11600	7770	15000	6980	7420	6620	6140
26	7610	6980	6750	4910	39800	10700	7260	14800	7010	7320	6650	6370
27	7820	6800	6730	4760	38500	9590	6800	14400	7180	7260	6620	8950
28	7850	6830	6370	4670	27300	9150	6390	14300	7130	7320	6750	13200
29	7770	6850	6320	4700		8560	6370	10600	7290	7420	6780	11600
30	8410	6880	5690	4650		9300	6750	11700	7740	7320	6800	10300
31	11600	—	5530	4570	—	8470	—	11200	—	7320	6830	—
Mean	7529	7694	6978	5826	11450	23700	6988	13220	8137	7574	6848	7068
Ac-Ft	462900	457800	429000	358300	616300	1457000	415800	813000	484200	465700	421100	420600

Maximum Discharge C.F.S. For: Water Year *68,200 February 25, 1957
Year of Record *350,000 February 28, 1940

Total Discharge Ac.-Ft. For 56-Calendar Year
56-57 Water Year 6802000

Station located at Gianella Bridge, Mile 149.5L above Sacramento. Period of record April 1945 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 44

BIG CHICO CREEK NEAR CHICO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	28	50	30	29	34	330	101	82	86	34	25	25
2	28	42	30	29	39	282	93	131	80	34	28	25
3	28	38	32	32	35	253	86	111	75	34	28	25
4	28	35	33	32	34	339	79	96	72	34	28	25
5	28	34	41	32	34	504	75	90	67	34	28	24
6	25	34	36	32	34	490	73	82	63	33	28	24
7	22	33	34	32	38	393	69	78	61	33	28	24
8	30	33	32	32	68	321	67	82	60	33	28	24
9	29	32	32	34	64	351	65	87	56	32	28	24
10	30	32	33	30	59	301	62	93	59	32	28	24
11	35	30	34	36	57	256	61	87	54	31	28	24
12	32	32	35	134	56	309	60	83	53	31	28	24
13	30	30	34	373	60	271	61	83	56	31	27	24
14	29	30	33	203	72	240	190	96	52	21	27	24
15	29	32	34	125	70	253	140	96	50	31	25	24
16	29	32	34	84	72	321	120	90	46	30	25	24
17	29	32	33	67	68	301	189	85	43	30	25	24
18	29	32	30	56	64	261	253	996	43	30	25	25
19	29	32	30	53	59	230	238	960	42	30	25	24
20	29	30	30	123	56	199	216	594	41	30	24	24
21	30	29	30	90	86	176	189	423	41	30	23	24
22	29	29	30	65	151	149	169	324	39	30	24	24
23	34	29	30	58	804	132	147	264	39	30	25	27
24	36	29	30	51	2670	122	131	218	38	29	24	24
25	30	29	30	47	1230	113	118	178	37	29	24	24
26	35	29	30	44	843	106	106	153	36	29	25	25
27	39	29	30	38	715	98	98	136	36	29	24	201
28	36	29	30	40	465	93	92	123	36	29	25	85
29	35	29	29	38		96	87	113	36	28	23	45
30	140	29	30	36		107	90	103	35	28	25	38
31	92	—	30	35	—	103	—	95	—	28	25	—
Mean	35.9	32.2	31.9	68.1	287	242	118	201	51.1	30.9	26.0	33.4
Ac-Ft	2210	1910	1960	4190	15940	14880	6990	12360	3040	1900	1600	1990

Maximum Discharge C.F.S. For Water Year 4,100 February 24, 1957
Year of Record 8,260 December 10, 1937

Total Discharge Ac.-Ft. For 56-Calendar Year 143000
56-57 Water Year 68970

Station located 7 miles northeast of Chico. Drainage area is 67.9 square miles. Period of record May 1930 to date. Records computed by U. S. Geological Survey.

TABLE 45

BIG CHICO CREEK AT CHICO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	Moy	June	July	Aug.	Sept.
1	5.6	41	15	28	13	186	83	68	64	*13	*4.6	3.7
2	7.6	31	17	28	14	161	73	96	65	*12	*4.5	2.6
3	7.6	28	16	28	15	144	68	99	59	*12	*4.4	1.8
4	8.2	24	16	29	13	174	63	84	54	*11	*4.3	4.4
5	8.2	22	23	27	13	240	56	75	51	*11	*4.2	0.6
6	8.2	21	22	26	14	246	51	68	42	*11	*4.1	0.7
7	6.3	20	19	21	15	203	51	64	40	*10	*4.0	2.6
8	13	19	18	18	22	171	50	65	*36	*10	*4.0	0.4
9	13	18	15	19	24	174	48	72	*34	*9.7	*3.9	3.3
10	12	18	13	16	22	159	47	77	*35	*9.4	*3.8	1.8
11	18	18	0	16	21	137	44	67	*32	*9.1	*3.7	2.2
12	17	18	0	32	20	156	45	71	*32	*8.9	*3.6	3.0
13	12	18	0	74	21	147	41	73	*34	*8.6	*3.6	1.5
14	7.0	19	4.0	23	29	125	98	84	*31	*8.4	*3.5	0
15	13	20	1.5	2.6	30	128	100	90	*30	*8.0	*3.4	0
16	13	18	1.1	0.1	33	157	86	83	*28	*7.8	3.3	0.4
17	13	16	0.7	8.2	33	149	114	80	*26	*7.6	11	1.1
18	13	16	1.1	18	31	132	151	471	*24	*7.4	23	2.2
19	13	14	1.5	18	30	120	146	640	*23	*7.0	27	1.8
20	14	15	1.5	49	30	110	140	441	*21	*6.7	26	1.1
21	13	16	1.1	41	48	96	128	336	*20	*6.5	29	0
22	11	17	13	28	79	8.3	117	266	*19	*6.3	2.2	0
23	15	16	31	23	332	72	104	226	*18	*6.1	10	1.1
24	25	16	31	20	1070	65	92	199	*17	*5.9	19	0.7
25	19	16	31	18	*590	59	79	176	*17	*5.6	26	1.5
26	22	15	31	16	*484	55	83	154	*16	*5.5	20	6.3
27	27	17	31	16	390	50	86	74	*15	*5.4	15	128
28	24	17	29	15	260	47	77	21	*14	*5.2	18	89
29	25	16	31	15		60	68	61	*14	*5.0	2.2	33
30	91	15	31	15		87	71	98	*13	*4.9	2.6	19
31	77	—	29	13	—	82	—	92	—	*4.7	4.4	—
Mean	18.4	19.2	15.3	22.6	132	128	82.0	147	30.8	8.1	9.6	10.5
Ac-Ft	1134	1140	941	1390	7331	7884	4879	9066	1833	495	592	622

Maximum Discharge C.F.S. For Water Year Year of Record 1,610 February 24, 1957

Total Discharge Ac.-Ft. For 56-Calendar Year 56-57 Water Year 37310

Station located at Rose and Bidwell Avenues. Big Chico Creek is an east-side tributary to the Sacramento River at Mile 141.5L above Sacramento. For total flow of Big Chico Creek near Mouth combine with flow of Lindo Channel near Chico. Period of record January 1956 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 46

LINDO CHANNEL NEAR CHICO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	Moy	June	July	Aug.	Sept.
1				0	4.9	162	0	0				
2				0	5.7	133	0	0				
3				0	6.9	114	0	0				
4				0	5.3	140	0	0				
5				0	6.1	198	0	0				
6				0	6.5	202	0	0				
7	N	N	N	0	7.4	163	0	0	N	N	N	N
8	0	0	0	0	14	132	0	0	0	0	0	0
9				0	17	133	0	0				
10				0	16	120	0	0				
11				0	14	102	0	0				
12				13	13	111	0	0				
13				147	14	105	0	0				
14				86	21	86	14	0				
15				49	22	86	27	0				
16	F	F	F	41	23	112	22	0	F	F	F	F
17	L	L	L	31	22	108	31	0	L	L	L	L
18				15	19	93	59	271				
19	0	0	0	14	17	83	57	419	0	0	0	0
20	W	W	W	43	16	69	55	172	W	W	W	W
21				33	28	61	47	100				
22				19	48	52	41	61				
23				13	*299	45	36	39				
24				11	*1450	40	31	21				
25				9.2	*757	35	26	8.7				
26				8.3	*367	32	17	3.1				
27				6.1	328	29	0	45				
28				4.9	226	26	0	91				
29				5.3		23	0	55				
30				4.2		4.8	0	0				
31		—		3.8	—	0	—	0	—			—
Mean	0	0	0	18.0	135	90.3	15.4	41.5	0	0	0	0
Ac-Ft	0	0	0	1104	7485	5553	918	2550	0	0	0	0

Maximum Discharge C.F.S. For Water Year Year of Record *2,170 February 24, 1957

Total Discharge Ac.-Ft. For 56-Calendar Year 56-57 Water Year 17610

Station located at Grape Avenue, 3 miles west of Chico. Lindo Channel enters Big Chico Creek below the Big Chico Creek at Chico gaging station. For total flow of Big Chico Creek near Mouth, combine with flow of Big Chico Creek at Chico. Period of record January 1956 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 47

STONY CREEK AT BLACK BUTTE DAM SITE, NEAR ORLAND

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	96	40	19	0	100	1060	318	163	140	143	137	103
2	104	30	19	0	97	995	272	149	128	140	149	92
3	105	28	19	0	100	888	236	140	128	143	152	82
4	90	22	11	0	97	888	180	137	128	131	156	103
5	82	17	6.0	0	95	1400	140	134	152	128	149	103
6	96	22	2.7	0	95	1620	134	134	176	131	152	97
7	80	28	.6	0	97	1480	137	131	166	137	156	92
8	41	25	0	0	106	1190	159	134	140	140	146	103
9	33	31	0	0	106	744	166	137	128	140	131	116
10	54	27	0	0	106	642	166	140	128	156	128	119
11	69	26	11	4.5	103	582	176	140	122	156	125	116
12	80	25	19	17	103	684	169	140	116	159	119	114
13	85	29	22	138	97	672	146	140	116	146	116	111
14	82	29	20	46	100	594	137	140	114	152	122	90
15	76	29	19	22	122	646	224	137	114	149	125	60
16	70	22	19	18	128	600	224	140	114	156	122	74
17	66	7.2	18	14	137	530	224	137	119	159	122	90
18	69	4.8	17	12	114	495	564	186	128	140	134	97
19	57	2.7	16	9.7	92	455	540	460	140	128	140	84
20	52	30	14	289	87	470	530	576	146	128	128	87
21	55	70	13	229	116	546	480	660	146	131	140	103
22	54	65	12	173	159	535	435	630	149	131	134	103
23	52	69	12	152	1450	500	415	546	149	140	95	103
24	44	34	12	134	4010	475	372	460	143	131	116	103
25	34	22	11	122	3320	445	318	363	143	140	128	114
26	25	33	11	116	1630	405	260	314	140	152	128	122
27	20	40	12	114	1350	372	187	268	134	152	128	92
28	30	29	9.7	106	1040	327	152	216	143	159	134	38
29	33	22	2.7	103		322	163	198	143	159	128	29
30	107	20	.6	103		376	180	180	149	159	100	28
31	94	—	0	103	—	358	—	156	—	156	106	—
Mean	65.6	29.3	11.2	65.3	541	687	260	245	136	144	131	92.3
Ac-Ft	4040	1740	691	4020	30060	42240	15480	15050	8100	8870	8030	5490

Maximum Discharge C.F.S. For	Water Year	5,360 February 24, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year 556600
	Year of Record	19,300 December 22, 1955		56-57 Water Year 143800

Station located below the proposed Black Butte Dam Site, 8.7 miles northwest of Orland. Drainage area is 741 square miles. Flows listed include flow of South Diversion Canal which diverts 120 feet above station. Period of record February 1948 to date. Records computed by U. S. Geological Survey.

TABLE 48

STONY CREEK NEAR HAMILTON CITY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	0	30		0	0	1090	307	21	40			
2	0	22		0	0	1060	254	20	29			
3	0	9.7		0	0	945	201	28	27			
4	0	4.7		0	0	903	134	27	21			
5	0	3.2		0	0	1190	65	24	20			
6	0	1.1		0	0	1680	39	36	15			
7	0	.1		0	0	1660	32	32	20			
8	0	0		0	0	1080	25	34	22			
9	0	0		0	0	805	16	56	13			
10	0	0		0	0	620	7.0	62	18			
11	0	0		0	0	510	6.5	69	12			
12	0	0	N	0	0	515	4.0	62	4.4	N	N	N
13	0	0		0	0	566	15	58	3.7			
14	0	0	0	0	0	480	20	39	0	0	0	0
15	0	0		0	0	450	56	29	4.0			
16	0	0		0	0	668	124	20	1.8			
17	0	0	F	0	0	530	160	12	15	F	F	F
18	0	0	L	0	0	530	395	29	9.5	L	L	L
19	0	0	O	0	0	455	530	217	2.1	O	O	O
20	0	0	W	180	0	440	530	371	0	W	W	W
21	0	0		226	0	500	490	450	0			
22	0	0		80	0	530	440	505	0			
23	0	0		46	1060	505	400	435	0			
24	0	0		23	3570	460	358	331	0			
25	0	0		12	4470	440	287	232	0			
26	0	0		7.1	1880	390	216	172	0			
27	0	0		3.2	1540	358	112	130	0			
28	0	0		.8	1120	335	60	88	0			
29	0	0		0		307	34	62	0			
30	.8	0		0		340	28	64	0			
31	18	—		0	—	340	—	48	—			—
Mean	0.61	2.36	0	18.6	487	667	178	121	9.25	0	0	0
Ac-Ft	37	140	0	1150	27050	41020	10600	7460	550	0	0	0

Maximum Discharge C.F.S. For	Water Year	5,500 February 24, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year 507200
	Year of Record	37,500 March 1, 1941		56-57 Water Year 88010

Station located 6 miles above mouth, above the Glenn-Colusa Irrigation District canal crossing. The flow to the Sacramento River is cut off during irrigation season by an earth fill installed by Glenn-Colusa Irrigation District to transport water from their main canal across Stony Creek. Diversions from Stony Creek by G.C.I.D. in acre-feet amounted to: March 0300, April 10700, May 7460, and June 550. Drainage area is 764 square miles. Stony Creek is a west side tributary to Sacramento River at Mile 138.0R above Sacramento. Period of record January 1941 to date. Records computed by U. S. Geological Survey.

TABLE 49

SACRAMENTO RIVER AT ORD FERRY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	7980	10000	7090	5760	4880	24300	8670	7030	11000	7620	7280	6910
2	7430	9060	7050	5710	4920	36600	8200	7280	10800	7600	7220	6910
3	7130	8600	7030	5610	4830	46800	7640	7930	10600	7570	7260	6890
4	7130	8420	7090	5520	4630	51400	7220	7680	10400	7490	7280	6730
5	7130	8360	7280	5450	4550	59300	6750	7380	9920	7380	7320	6540
6	7110	8240	7360	5420	4510	62400	6400	8000	9610	7410	7340	6540
7	7150	8290	7180	5400	4530	58200	6110	8040	9420	7360	7300	6620
8	7260	8270	7180	5400	4590	39900	5910	8000	8870	7360	7300	6520
9	7320	8290	7150	5400	4670	29700	5470	8220	8330	7320	7380	6360
10	7320	8270	7180	5400	4690	24000	5160	8780	8270	7340	7380	6400
11	7360	7910	7450	5420	4640	19200	4920	9660	8270	7320	7360	6240
12	7620	7850	7530	5630	4580	19000	4670	10200	8020	7300	6970	6170
13	7550	7830	7600	9870	4580	20800	5140	10200	7830	7300	6810	6240
14	7510	7720	7620	11800	4640	17500	5420	10500	7680	7410	6710	6280
15	7430	7660	7570	7780	4720	16100	7050	10800	7550	7470	6700	6360
16	7380	7700	7550	7470	4820	20600	6660	10600	7490	7720	6660	6460
17	7340	7700	7530	6480	4820	21200	6360	10200	7430	7740	6660	6460
18	7300	7640	7510	5950	4900	20200	7510	11200	7280	7700	6700	6460
19	7280	7620	7490	5720	4940	18400	9390	27700	7260	7720	6680	6460
20	7280	7640	7510	6440	4920	17300	10700	36100	7200	7720	6680	6460
21	7320	7680	7490	8420	4990	16500	11600	31400	7070	7530	6710	6500
22	7320	7380	7470	6930	5910	15800	10000	22900	7030	7450	6680	6260
23	7340	7280	7180	6000	9450	15000	9200	17400	7030	7360	6730	6110
24	7380	7280	6970	5600	29800	13300	8690	15300	6990	7360	6700	6060
25	7470	7200	6970	5450	63600	12600	8130	15100	6930	7340	6730	6040
26	7600	7150	6950	5310	*49400	11600	7600	15000	6850	7340	6750	6130
27	7780	7110	6930	5190	*38600	10400	7150	14600	7050	7300	6770	7780
28	7890	7090	6710	5040	*28600	9680	6730	14400	7030	7320	6790	13200
29	7780	7130	6540	4970		9110	6560	11300	7110	7380	6890	11800
30	8220	7090	6130	4920		9630	6850	11900	7550	7320	6890	10600
31	11100	—	5760	4880	—	9180	—	11400	—	7280	6870	—
Mean	7555	7849	7163	6140	11600	24380	7262	13100	8129	7446	6952	7016
Ac-Ft	464500	467000	440400	377500	644100	1499000	432100	805700	483700	457800	427400	417500

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
Water Year	69,000	February 25, 1957	56-Calendar Year		11870000
Year of Record	370,000	February 28, 1940	56-57 Water Year		6917000

Station located at Mile 130.8R above Sacramento. Records of flow in excess of 40,000 c.f.s. were computed by extending the rating curve because of inability to measure flow above this figure. Period of record January 1948 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 50

SACRAMENTO RIVER AT BUTTE CITY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	7810	10500	6850	5660	4860	23500	8650	6320	11300	7280	6760	6490
2	7420	9300	6900	5600	4860	32100	8310	6490	11100	7280	6690	6490
3	7060	8740	6850	5560	4870	43500	7710	7180	10800	7280	6600	6490
4	7020	8500	6800	5490	4680	49200	7230	7110	10600	7230	6620	6430
5	7020	8430	6940	5410	4580	54600	6690	6650	10100	7160	6670	6250
6	6940	8340	7140	5360	4550	59200	6270	7110	9810	7090	6690	6210
7	6920	8260	6970	5340	4550	58800	5980	7260	9490	7040	6670	6250
8	7020	8240	6970	5340	4570	47000	5760	7260	9100	7060	6600	6230
9	7060	8240	6920	5320	4660	32300	5410	7420	8620	7020	6670	6060
10	7090	8170	6920	5320	4680	25400	5070	7900	8650	7020	6670	6080
11	7140	7980	7180	5340	4630	20400	4860	8580	8380	7020	6690	6060
12	7350	7740	7300	5490	4570	19000	4600	9390	8000	6970	6430	5900
13	7330	7690	7380	8140	4570	21000	4860	9420	7780	6990	6160	5980
14	7280	7540	7350	12600	4570	18100	5090	9580	7660	7020	6060	6020
15	7280	7470	7350	8310	4660	16400	6320	10000	7500	7110	6060	6120
16	7260	7470	7330	7570	4760	18800	6470	9910	7450	7300	6040	6180
17	7260	7470	7300	6620	4780	21700	5900	9460	7330	7380	6040	6230
18	7230	7450	7300	6000	4820	19800	6710	9780	7230	7350	6060	6250
19	7260	7380	7300	5760	4840	18500	8670	19800	7110	7350	6060	6270
20	7260	7350	7280	6020	4840	17200	9610	33800	7020	7350	6080	6270
21	7260	7400	7280	8380	4890	16400	11400	31500	6940	7300	6100	6270
22	7280	7260	7260	7260	5310	15800	9970	25100	6780	7090	6100	6210
23	7300	7060	7090	6100	7780	15000	8860	18600	6760	7090	6160	6000
24	7350	7040	6850	5600	20800	13700	8340	16000	6730	7020	6140	6000
25	7450	7040	6800	5410	49200	12700	7760	15200	6710	6820	6160	5940
26	7540	6990	6780	5250	52800	11900	7090	15300	6580	6800	6160	5960
27	7760	6870	6780	5160	39300	10800	6560	14900	6850	6780	6180	6780
28	7980	6900	6580	5020	33100	9780	6140	14500	6690	6780	6250	12700
29	7830	6870	6360	4940		9300	5920	12500	6670	6900	6340	12800
30	8050	6850	6080	4920		9250	6000	12000	7110	6800	6340	11000
31	10400	—	5640	4890	—	9490	—	11700	—	6730	6450	—
Mean	7426	7751	6962	6103	10970	24210	6940	12510	8095	7078	6345	6797
Ac-Ft	456600	461200	428100	375200	609100	1489000	413000	769000	481700	435200	390100	404500

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
Water Year	59,500	March 6, 1957	56-Calendar Year		11920000
Year of Record	170,000	February 7, 1942	56-57 Water Year		6713000

Station located at Butte City bridge, Mile 115.8L above Sacramento. Period of record April 1921 to October 1938 (low-water periods only); January 1939 to date. Records computed by U. S. Geological Survey.

TABLE 51

MOULTON WEIR FROM SACRAMENTO RIVER TO BUTTE BASIN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1					0	0						
2					0	0						
3					0	0						
4					0	0						
5					0	115						
6					0	1220						
7					0	1530						
8					0	227						
9					0	0						
10					0	0						
11	N	N	N	N	0	0	N	N	N	N	N	N
12					0	0						
13	0	0	0	0	0	0	0	0	0	0	0	0
14					0	0						
15					0	0						
16					0	0						
17					0	0						
18					0	0						
19					0	0						
20					0	0						
21	F	F	F	F	0	0	F	F	F	F	F	F
22	L	L	L	L	0	0	L	L	L	L	L	L
23	O	O	O	O	0	0	O	O	O	O	O	O
24	W	W	W	W	0	0	W	W	W	W	W	W
25					0	0						
26					207	0						
27					0	0						
28					0	0						
29						0						
30						0						
31		—			—		—		—			—
Mean	0	0	0	0	7.4	99.7	0	0	0	0	0	0
Ac-Ft	0	0	0	0	411	6133	0	0	0	0	0	0

Maximum Discharge C.F.S. For Water Year 1,580 March 7, 1957
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 304400
56-57 Water Year 6544

Station located on Sacramento River at Mile 103.6L above Sacramento. Elevation of crest is 76.75 U.S.E.D. datum: length of crest is 500 feet. Period of record January 1940 to date. Records computed by Department of Water Resources.

TABLE 52

SACRAMENTO RIVER OPPOSITE MOULTON WEIR

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	7800					*27000	8450	6780	10900	6880	6710	6490
2	7560					*31000	8190	6900	10700	6950	6670	6540
3	7240					*42000	7670	7450	10400	6960	6690	6540
4	7210					*49500	7300	7630	10200	6960	6740	6540
5	7220					*55000	6900	7300	9760	6860	6740	6380
6	7190					*60000	6570	7600	9350	6830	6760	6300
7	7150					*60500	6300	7810	9080	6760	6740	6330
8	7210					*54000	6120	7810	8710	6790	6720	6370
9	7250	N	N	N	N	*35000	5820	7920	8230	6740	6740	6270
10	7270	O	O	O	O	*28000	5480	8320	7970	6780	6760	6220
11	7250					24400	5280	8800	7920	6760	6760	6250
12	7360					20000	5030	9680	7670	6720	6590	6120
13	7440					22900	5140	9830	7470	6760	6320	6120
14	7340	R	R	R	R	19800	5390	9930	7330	6760	6230	6170
15	7340	E	E	E	E	16900	6250	10300	7160	6860	6250	6270
16	7310	C	C	C	C	17700	6790	10400	7070	6950	6200	6350
17	7300	O	O	O	O	*24600	6350	9970	6980	7080	6220	6380
18	7280	R	R	R	R	21400	6840	9950	6840	7070	6230	6440
19	7310	D	D	D	D	19900	8390	17100	6760	7070	6230	6470
20	7270					17900	9180	*30000	6640	7070	6220	6470
21	7280					16800	11100	*32000	6590	7030	6270	6490
22	7270					16000	10000	*27000	6500	6860	6270	6520
23	7360					15200	9010	22400	6450	6840	6280	6350
24	7310					13800	8470	17000	6440	6740	6300	6230
25	7390					12600	7990	15200	6420	6740	6300	6220
26	7440					11800	7510	15400	6350	6740	6320	6200
27	7540					10700	7030	14800	6450	6710	6330	6710
28	7690					9720	6720	14200	6500	6710	6380	10800
29	7690					9180	6500	12700	6490	6740	6440	12200
30	7710					8950	6520	11400	6740	6740	6470	10600
31	9220	—			—	9290	—	11400	—	6710	6490	—
Mean	7426					25210	7143	12740	7736	6844	6464	6845
Ac-Ft	456600					1550000	425000	783400	460300	420800	397400	407300

Maximum Discharge C.F.S. For Water Year
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year
56-57 Water Year

Station located at Mile 103.3R above Sacramento. Also known as "Sacramento River at Gordon Pump." Daily flow records computed for only the irrigation season as part of the Sacramento River Trial Distribution program. Records of flow above 24,500 c.f.s. are based on correlation with adjacent gaging stations and should not be considered to have the same degree of accuracy as the records for other gaging stations in this report. Period of record March 1954 to date (irrigation season only). Records computed by Department of Water Resources.

* Estimated

TABLE 53

COLUSA WEIR FROM SACRAMENTO RIVER TO BUTTE BASIN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb	March	April	May	June	July	Aug.	Sept.
1					0	466		0				
2					0	828		0				
3					0	9450		0				
4					0	15500		0				
5					0	19600		0				
6					0	24400		0				
7					0	26100		0				
8					0	21200		0				
9					0	7660		0				
10					0	610		0				
11					0	0		0				
12	N	N	N	N	0	0	N	0	N	N	N	N
13	O	O	O	O	0	0	O	0	O	O	O	O
14					0	0		0				
15					0	0		0				
16	F	F	F	F	0	0	F	0	F	F	F	F
17	L	L	L	L	0	0	L	0	L	L	L	L
18	O	O	O	O	0	0	O	0	O	O	O	O
19	W	W	W	W	0	0	W	0	W	W	W	W
20					0	0		1260				
21					0	0		2890				
22					0	0		457				
23					0	0		0				
24					0	0		0				
25					6260	0		0				
26					20400	0		0				
27					11600	0		0				
28					7070	0		0				
29					0	0		0				
30					0	0		0				
31		—			—	0	—	0	—			—
Mean	0	0	0	0	1619	4058	0	149	0	0	0	0
Ac-Ft	0	0	0	0	89910	249500	0	9138	0	0	0	0

Maximum Discharge C.F.S. For Water Year 26,200 March 7, 1957
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 2650000
56-57 Water Year 348500

Station located on Sacramento River at Mile 92.4L above Sacramento. Elevation of crest is 61.80 U.S.E.D. datum; length of crest is 1,650 feet. Period of record January 1940 to date. Records computed by Department of Water Resources.

TABLE 54

SACRAMENTO RIVER AT COLUSA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	7810	10500	7030	5710	4900	29100	9120	6330	11200	6750	6600	6350
2	7660	9340	7030	5730	4890	28400	8680	6360	10800	6810	6520	6420
3	7260	8790	7040	5700	4950	32900	8140	6840	10600	6820	6520	6410
4	7170	8480	7010	5620	4780	34300	7630	7230	10300	6810	6570	6400
5	7170	8350	7080	5530	4680	35100	7130	6880	10000	6730	6570	6200
6	7170	8270	7260	5450	4630	36000	6600	6980	9530	6600	6620	6090
7	7110	8200	7180	5430	4580	36400	6230	7360	9150	6540	6580	6130
8	7160	8190	7090	5420	4590	35500	5970	7360	8790	6500	6570	6220
9	7220	8130	7090	5410	4640	32700	5710	7380	8260	6450	6600	6020
10	7240	8110	7090	5410	4700	29500	5370	7730	7950	6440	6680	5980
11	7240	8020	7210	5380	4700	25000	5140	8220	7950	6400	6650	6020
12	7350	7790	7360	5540	4660	21100	4950	9180	7740	6350	6540	5880
13	7440	7720	7450	6330	4660	21900	4940	9550	7510	6410	6150	5860
14	7380	7680	7460	11900	4660	21100	5280	9690	7360	6420	6040	5980
15	7360	7590	7450	10200	4680	18600	5880	10000	7210	6500	6060	6120
16	7350	7580	7430	8060	4800	17500	6940	10300	7100	6630	5980	6210
17	7340	7560	7410	7310	4820	22500	6460	9900	7010	6870	6010	6280
18	7320	7560	7400	6470	4820	21700	6640	9810	6910	6910	6060	6320
19	7350	7520	7400	6020	4870	20800	8050	13500	6790	6920	6080	6400
20	7300	7480	7360	5920	4880	19100	9070	27500	6700	7040	6080	6430
21	7320	7500	7380	7790	4900	17600	11000	30800	6630	7110	6180	6450
22	7340	7470	7350	7890	5060	16800	10700	29100	6530	6900	6200	6470
23	7360	7280	7300	6630	6770	16000	9450	23100	6430	6820	6200	6260
24	7370	7170	7050	5930	13300	15000	8730	18300	6370	6770	6190	6120
25	7420	7220	7000	5620	29400	13500	8110	15800	6300	6660	6160	6090
26	7480	7160	6960	5460	34800	12800	7550	15300	6160	6640	6150	6010
27	7620	7100	6960	5310	33400	11800	7010	14900	6260	6590	6190	6440
28	7790	7020	6860	5180	32300	10700	6520	14400	6260	6600	6220	9960
29	7800	7030	6640	5050		9930	6190	13800	6200	6660	6310	12700
30	7810	7080	6470	4980		9480	6100	11600	6470	6670	6320	11600
31	8820	—	6040	4940	—	9950	—	11700	—	6600	6340	—
Mean	7436	7830	7124	6236	9101	22020	7176	12480	7749	6675	6321	6727
Ac-Ft	457200	465900	438000	383400	505400	1354000	427000	767400	461100	410400	388600	400300

Maximum Discharge C.F.S. For Water Year 36,600 March 7, 1957
Year of Record 49,000 February 8, 1942

Total Discharge Ac.-Ft. For 56-Calendar Year 9378000
56-57 Water Year 6459000

Station located at the Colusa bridge, Mile 89.4R above Sacramento. Period of record April 1921 to October 1938 (low-water periods only); January 1939 to date. Records computed by U. S. Geological Survey.

TABLE 55

BUTTE CREEK NEAR CHICO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	163	220	139	131	143	880	423	429	448	202	157	145
2	167	207	135	127	151	800	399	578	423	194	14[illegible]	145
3	167	163	135	124	147	744	387	494	399	1[illegible]	157	14[illegible]
4	167	163	147	127	143	896	381	448	387	183	160	121
5	167	167	175	131	143	1310	375	435	363	179	154	151
6	163	155	155	127	151	1220	375	429	357	170	157	154
7	163	159	147	127	147	992	363	423	345	183	157	135
8	167	159	147	135	171	840	357	435	333	175	154	13[illegible]
9	171	163	143	124	171	944	399	448	327	175	157	151
10	171	155	139	124	167	816	363	435	345	175	160	143
11	187	151	151	143	159	720	271	405	315	175	145	13[illegible]
12	179	147	155	272	159	848	339	393	298	175	157	13[illegible]
13	179	143	163	538	179	744	345	387	293	175	145	14[illegible]
14	167	151	159	315	207	660	712	435	288	169	154	148
15	167	151	155	254	215	760	542	405	276	169	148	143
16	167	143	151	199	207	816	461	387	271	169	148	145
17	167	139	143	187	220	712	542	375	260	166	148	140
18	171	147	147	171	207	645	622	2290	251	166	145	145
19	175	147	139	171	207	585	585	2150	246	166	145	140
20	171	143	143	290	211	549	549	1440	246	166	140	135
21	171	143	127	224	305	542	514	1120	236	166	140	140
22	171	143	139	191	410	487	500	952	232	166	143	135
23	175	147	139	171	1410	454	474	824	227	160	148	138
24	187	147	131	163	4160	435	454	720	227	169	143	135
25	179	139	131	159	2490	423	435	660	218	166	140	133
26	179	139	139	151	2080	417	417	615	213	166	145	138
27	199	135	139	127	1630	405	405	570	209	151	145	322
28	187	135	131	167	1130	393	405	542	205	160	145	262
29	179	143	131	135		417	405	521	205	160	148	157
30	436	135	127	159		435	429	494	190	160	143	143
31	305	—	131	147	—	435	—	480	—	151	148	—
Mean	186	153	143	181	611	688	441	668	288	171	149	152
Ac-Ft	11430	9080	8790	11130	33960	42300	26240	41100	17120	10520	9170	9030

Maximum Discharge C.F.S. For Water Year 5,690 February 24, 1957
Year of Record 18,700 December 22, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 394300
56-57 Water Year 229900

Station located 0.7 mile below Little Butte Creek, 7.5 miles east of Chico. Drainage area is 148 square miles. Butte Creek enters Butte Slough at Mile 0.6E above its junction with the Sacramento River. Flows into the Sacramento River are regulated by gates at the mouth of Butte Slough. See notes on Butte Slough to Sacramento River and Butte Slough to Sutter Bypass. Period of record November 1930 to date. Records computed by U. S. Geological Survey.

TABLE 56

BUTTE SLOUGH TO SACRAMENTO RIVER

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	0	0	41	170	334	*0	540	0	781	0	32	5.6
2	0	237	41	109	308	*0	557	0	695	0	19	5.7
3	0	231	41	117	276	*0	565	0	610	0	18	5.9
4	0	231	60	144	237	*0	548	72	548	0	8.5	18
5	0	213	78	151	189	*0	518	71	527	0	6.9	23
6	0	151	69	170	170	*0	491	75	478	0	45	23
7	0	117	123	287	242	*0	466	80	332	0	42	23
8	0	78	109	398	270	*0	279	45	168	2.8	36	58
9	0	86	101	455	270	*0	202	53	202	12	39	102
10	0	94	109	473	270	*0	217	85	224	12	67	125
11	0	144	94	500	287	*0	168	203	208	12	91	183
12	0	151	94	504	469	*101	88	202	197	13	91	348
13	0	109	94	427	482	*0	100	245	98	22	98	386
14	0	109	109	0	393	*0	190	310	64	28	101	474
15	0	157	109	644	344	*69	219	354	68	28	100	464
16	0	123	101	735	303	170	305	403	70	27	58	449
17	0	60	109	690	287	0	346	437	70	26	70	424
18	0	0	94	610	265	0	326	455	49	26	83	410
19	0	0	94	518	249	0	268	0	23	27	97	381
20	0	31	94	459	581	0	229	*0	15	26	103	339
21	0	0	86	303	1340	0	114	*0	15	27	90	322
22	0	0	109	565	1480	0	159	*0	15	41	78	310
23	0	0	131	627	758	0	211	0	15	50	78	324
24	0	31	157	581	0	213	183	0	16	64	71	315
25	0	18	131	527	0	359	186	344	15	87	25	260
26	0	31	144	535	*0	398	142	413	7.0	91	6.8	202
27	0	60	144	540	*0	459	92	450	6.8	67	6.8	160
28	0	78	170	473	*0	523	17	500	6.8	70	6.5	0
29	41	51	183	393		500	6.0	587	6.8	87	6.1	0
30	60	0	208	369		478	0	906	1.0	91	5.9	118
31	0	—	237	334	—	417	—	781	—	77	5.8	—
Mean	3.3	86.3	112	413	350	119	258	228	184	32.[illegible]	5[illegible].1	[illegible]09
Ac-Ft	200	5139	6871	25400	19450	[illegible]313	15340	14020	10970	2011	3144	12410

Maximum Discharge C.F.S. For: Water Year
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 123100
56-57 Water Year 122300

Station located at outfall gates at junction of Sacramento River, Mile 84.0L above Sacramento. Flow is measured at and regulated by gravity culverts. These flows, together with the flow of Butte Slough to Sutter Bypass and Wadsworth Canal to Sutter Bypass are, during the summer months, made up almost entirely of return water from lands irrigated by Feather River diversions. Period of record June 1924 to October 1938 (low water periods only); January 1939 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 57

SACRAMENTO RIVER AT MERIDIAN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	7950					29800	10200	6600	11400	6800	6650	6480
2	7820					27900	9890	6660	11000	6910	6660	6520
3	7420					33400	9440	6970	10800	6970	6670	6550
4	7250					35500	8960	7430	10500	7010	6670	6580
5	7240					36500	8520	7210	10200	6970	6680	6440
6	7230					37700	8120	7150	9750	6890	6740	6340
7	7200					38200	7740	7480	9320	6860	6710	6350
8	7230					37600	7400	7480	8930	6820	6660	6480
9	7270	N	N	N	N	34200	7090	7450	8470	6790	6720	6430
10	7280	O	O	O	O	30300	6660	7760	8130	6790	6800	*6400
11	7250					25000	6300	8190	8100	6780	6860	6480
12	7330					20900	5960	9000	7920	6760	6810	6450
13	7480					20900	5780	9370	7620	6760	6460	6490
14	7440	R	R	R	R	20700	6140	9490	7460	6790	6300	6630
15	7420	E	E	E	E	18600	6550	9750	7300	6840	6290	6810
16	7420	C	C	C	C	17400	7650	10000	7200	6890	6140	6910
17	7380	O	O	O	O	20700	7280	9780	7110	7040	6140	6970
18	7380	R	R	R	R	20900	7350	9670	7000	7030	6120	6990
19	7380	O	D	D	O	20200	8430	11900	6830	7020	6220	7040
20	7370					18800	9380	23400	6710	7010	6180	7020
21	7380					17500	10900	30800	6650	7020	6240	7020
22	7420					16700	11000	29200	6560	7020	6240	*6920
23	7450					15900	9910	22400	6480	7000	6290	*6770
24	7490					15100	9150	18400	6410	6940	6260	6670
25	7540					13900	8600	15900	6400	6910	6220	6600
26	7620					13200	7980	15100	6320	6880	6210	6560
27	7740					12400	7370	14600	6330	6820	6210	6840
28	7890					11500	6920	14100	6440	6780	6250	9200
29	8010					10900	6580	13700	6360	6740	6350	12400
30	8010					10400	6480	11900	6490	6700	6400	11900
31	8620	—			—	10800	—	11800	—	6670	6430	—
Mean	7513					22370	7991	12280	7873	6878	6441	7108
Ac-Ft	462000					1376000	475500	755000	468500	422900	396000	423000

Maximum Discharge C.F.S. For Water Year: Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year: 56-57 Water Year

Station located at Mile 79.85 above Sacramento. Daily flow records computed for irrigation season only as part of the Sacramento River Trial Distribution program. Period of record January to December 1955; March 1956 to date (irrigation season only). Records computed by Department of Water Resources.

* Estimated

TABLE 58

RECLAMATION DISTRICT 70 DRAIN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	23	8.8	8.7	8.2	0	12	0	15	16	33	41	50
2	17	0	8.7	8.2	0	6.4	4.5	0	17	30	42	48
3	42	0	8.7	15	0	12	0	7.6	17	39	43	47
4	23	3.8	8.7	12	0	8.0	0	45	31	40	43	47
5	17	0	8.7	12	0	5.1	0	46	14	28	43	42
6	17	0	8.7	12	0	12	0	46	15	41	43	42
7	17	1.3	0	8.2	0	13	0	49	24	51	42	42
8	12	6.3	8.7	15	0	7.6	0	50	26	55	55	47
9	23	0	12	12	0	12	0	47	20	47	55	47
10	23	0	12	15	0	8.3	0	42	35	50	57	45
11	23	6.3	12	15	0	6.7	0	32	37	52	57	46
12	23	0	5.8	0	0	7.6	4.7	18	38	53	57	45
13	23	0	0	0	0	9.2	13	20	27	52	56	51
14	23	2.5	0	0	0	8.9	7.2	40	25	52	57	42
15	23	0	0	0	0	3.5	0	66	12	52	54	36
16	17	5.0	0	0	0	8.5	0	45	12	66	35	33
17	17	0	0	0	0	14	0	62	12	62	36	30
18	12	1.9	0	0	0	6.2	0	48	12	61	37	30
19	12	8.7	0	0	0	6.5	10	70	12	60	60	28
20	12	1.9	0	0	0	3.5	12	84	12	60	59	29
21	12	5.8	0	0	0	3.6	7.2	76	12	59	57	30
22	12	5.8	0	0	0	4.3	13	39	0	34	59	30
23	17	12	0	0	0	0	0	51	0	35	61	30
24	17	12	0	0	0	0	0	22	0	35	68	30
25	12	8.7	0	0	0	0	0	26	0	38	70	63
26	3.8	8.7	0	0	0	0	0	18	22	38	70	58
27	0	8.7	0	0	15	0	8.2	15	34	38	70	53
28	0	12	0	0	2.1	0	18	32	42	37	70	43
29	0	8.7	0	0		0	32	28	42	37	77	0
30	5.7	8.7	0	0		3.2	15	33	4.1	37	78	14
31	0	—	0	0	—	21	—	39	—	35	78	—
Mean	15.4	4.6	3.3	4.3	0.6	6.6	4.8	39.1	19.0	45.4	55.8	39.3
Ac-Ft	949	273	204	263	34	403	287	2403	1131	2791	3431	2337

Maximum Discharge C.F.S. For Water Year: Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 31320; 56-57 Water Year 14510

This is drainage returned by gravity and pumping to the Sacramento River at Mile 68.8L above Sacramento. This plant also discharges to an irrigation canal and is a combination irrigation and drainage plant. Period of record May 1924 to October 1938 (low-water periods only); January 1939 to date. Records computed by Department of Water Resources.

TABLE 59

TISDALE WEIR FROM SACRAMENTO RIVER TO SUTTER BYPASS

Date	Daily Mean Flow in Second-Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1					0	5380		0				
2					0	2690		0				
3					0	6410		0				
4					0	8610		0				
5					0	9770		0				
6					0	10800		0				
7					0	11800		0				
8	N	N	N	N	0	17800	N	0	N	N	N	N
9					0	10000		0				
10	0	0	0	0	0	4860	0	0	0	0	0	0
11					0	1510		0				
12					0	56		0				
13					0	41		0				
14					0	70		0				
15					0	0		0				
16	F	F	F	F	0	0	F	0	F	F	F	F
17					0	0		0				
18	L	L	L	L	0	0	L	0	L	L	L	L
19	0	0	0	0	0	0	0	0	0	0	0	0
20	W	W	W	W	0	0	W	1580	W	W	W	W
21					0	0		6010				
22					0	0		5320				
23					0	0		1230				
24					0	0		0				
25					2710	0		0				
26					10300	0		0				
27					10000	0		0				
28					8610	0		0				
29						0		0				
30						0		0				
31		—			—	0	—	0	—			—
Mean	0	0	0	0	1129	2898	0	456	0	0	0	0
Ac-Ft	0	0	0	0	62720	178200	0	28050	0	0	0	0

Maximum Discharge C.F.S. For Water Year 25,700 March 1, 1940
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 1306000
56-57 Water Year 269000

Station located on Sacramento River at Mile 64.2L above Sacramento. Elevation of crest is 45.45 U.S.E.D. datum; length of crest is 1155 feet. Period of record January 1940 to date. Records computed by Department of Water Resources.

TABLE 60

SACRAMENTO RIVER BELOW WILKINS SLOUGH

Date	Daily Mean Flow in Second-Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	7950	10000	7140	6180	5530	22500	9620	5050	11100	5470	5400	5340
2	7860	10000	7140	6130	5500	22100	9210	5220	10700	5580	5380	5430
3	7480	9370	7150	6100	5500	22800	8710	5410	10400	5640	5360	5520
4	7240	8920	7140	6040	5420	23200	8130	6080	10000	5690	5410	5550
5	7200	8700	7160	5980	5240	23400	7680	6120	9690	5730	5440	5500
6	7180	8540	7290	5910	5130	23700	7160	5840	9230	5640	5460	5390
7	7170	8440	7380	5900	5090	23900	6800	6190	8730	5600	5480	5420
8	7140	8400	7290	5950	5130	23800	6350	6420	8270	5560	5390	5640
9	7200	8360	7260	5990	5150	23200	6030	6560	7800	5460	5380	5740
10	7200	8330	7260	6020	5210	22600	5550	6830	7400	5380	5490	5710
11	7190	8320	7290	6030	5210	21800	5230	7320	7250	5350	5630	5850
12	7230	8130	7460	6120	5200	20600	4850	8070	7110	5340	5650	6060
13	7380	7980	7590	6390	5230	20300	4600	8690	6800	5350	5340	5990
14	7390	7900	7620	9150	5220	20300	4900	8850	6560	5420	5100	6120
15	7380	7860	7620	11000	5200	18600	5220	9090	6370	5500	5050	6320
16	7370	7800	7610	9170	5180	17200	6350	9450	6220	5570	4960	6490
17	7320	7760	7590	8250	5260	19300	6450	9390	6120	5710	4900	6570
18	7320	7720	7580	7410	5300	20200	6250	9250	5950	5740	4960	6640
19	7320	7680	7550	6810	5320	19600	7110	10800	5800	5740	4980	6700
20	7290	7620	7530	6550	5360	18500	8490	19400	5660	5770	4940	6700
21	7290	7620	7520	7160	5410	17200	9710	22400	5570	5850	4930	6640
22	7340	7620	7510	8350	5460	16300	10400	22300	5480	5710	4950	6640
23	7370	7480	7500	7690	6280	15600	9410	21200	5450	5550	4990	6510
24	7410	7320	7310	6900	9420	14800	8450	18800	5320	5530	5020	6340
25	7440	7290	7170	6410	19300	13700	7760	16300	5290	5520	5040	6260
26	7520	7270	7130	6210	23100	13000	7080	15100	5180	5500	5010	6200
27	7600	7220	7120	6080	23300	12200	6320	14500	5060	5470	5000	6360
28	7780	7150	7090	5930	23000	11100	5680	13900	5220	5420	5010	7860
29	7940	7120	6930	5760		10400	5240	13500	5200	5500	5120	11100
30	7960	7140	6780	5660		9840	5010	11900	5200	5520	5220	11400
31	8280	—	6470	5580	—	9980	—	11500	—	5450	5280	—
Mean	7443	8035	7296	6736	7880	18440	6992	11010	7004	5587	5202	6466
Ac-Ft	457700	478100	448600	414200	437700	1134000	416000	677200	416800	341700	319900	384800

Maximum Discharge C.F.S. For Water Year 23,900 March 7, 1957
Year of Record 26,600 February 9, 1942

Total Discharge Ac.-Ft. For 56-Calendar Year 050000
56-57 Water Year 5927000

Station located at Mile 62.9R above Sacramento, 0.3 mile below Wilkins Slough pumping plant of Reclamation District 108, 1.3 miles below Tisdale Weir. Period of record April 1931 to October 1938 (low-water periods only); January 1939 to date. Records computed by U. S. Geological Survey.

TABLE 61

SACRAMENTO RIVER ABOVE RECLAMATION DISTRICT 108 DRAIN PLANT

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	7790					22800	9850	*4600	11200	5050	5310	5290
2	7740					22300	9420	4630	10800	5200	5200	5320
3	7500					22500	8970	4980	10400	5350	5190	5400
4	7200					22800	8460	5760	10000	5360	5240	5470
5	7120					23100	7860	5880	9570	5460	*5290	5480
6	7070					*23500	7460	5610	9090	5430	*5240	5370
7	7090					*23600	*7130	5870	8690	5340	*5290	5370
8	7030					*23700	*6700	6160	8240	5380	*5220	5590
9	7100	N	N	N	N	23300	*6320	6400	7710	5300	*5200	5800
10	7120	O	O	O	O	22800	*5860	6770	7340	5200	*5290	5770
11	7150					22200	*5320	7180	7100	5160	*5430	5840
12	7160					21400	*4940	7780	7040	5100	*5520	5940
13	7330					20800	*4790	8340	6750	5160	*5330	5970
14	7360	R	R	R	R	20800	*4710	8540	6450	5230	5030	6070
15	7360	E	E	E	E	19400	*4730	8710	6240	5320	4910	6260
16	7310	C	C	C	C	18000	*6010	9010	6010	5440	4840	6390
17	7260	O	O	O	O	18900	*6230	8990	5920	5540	4760	6510
18	7260	R	R	R	R	19900	*6000	8860	5700	5560	4800	6570
19	7230	D	D	D	D	19300	*6740	11000	5540	5590	*4870	6540
20	7240					18300	*7990	18200	5350	5590	4840	6600
21	7240					17000	8850	21500	5300	5620	*4780	6550
22	7300					16000	9580	21800	5190	5690	4780	6580
23	7330					15400	8890	21200	5110	5540	4810	6480
24	7400					14600	8120	19500	5070	5450	*4840	6240
25	7430					13600	7300	17100	4970	5440	*4930	6110
26	7480					12800	6640	15600	4860	5430	4880	6030
27	7560					12100	5830	14600	4770	5390	4860	6050
28	7720					11300	*5300	13800	4840	5320	4860	6920
29	7880					10500	*5050	13300	4890	5380	4960	9920
30	7950					9970	*4750	12100	4890	5400	5100	11100
31	8220	—			—	9970	—	11600	—	5410	5160	—
Mean	7385					18470	6860	10820	6834	5382	5057	6318
Ac-Ft	454100					1136000	408200	665200	406700	330900	310900	375900

Maximum Discharge C.F.S. For Water Year — Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year — 56-57 Water Year

Station located at Mile 46.4 above Sacramento. Daily flow records computed for the irrigation season only as part of the Sacramento River Tri l Distribution program. The records are based on current meter measurements and on correlation with adj cent gaging stations and should not be considered to have the same degree of accuracy as the records for other gaging stations published in this report. Period of record March 1955 to date (irrigation season only). Records computed by Dep_rtment of Water Resources.

* Estimated

TABLE 62

RECLAMATION DISTRICT 108 DRAIN AT ROUGH AND READY BEND

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	52	13	0	0	0	48	0	164	298	165	324	465
2	0	0	55	0	0	0	0	163	298	228	210	326
3	62	0	39	0	34	63	73	236	298	256	331	383
4	0	0	0	0	0	36	0	311	214	163	325	381
5	56	0	0	0	0	41	0	181	275	311	218	374
6	0	0	0	0	0	31	0	214	126	160	332	371
7	45	43	49	0	0	25	62	237	260	193	331	360
8	0	0	0	0	0	44	0	306	195	259	332	484
9	43	0	0	0	0	0	0	330	201	164	332	405
10	0	0	0	0	0	39	0	342	271	313	332	402
11	18	51	0	0	0	50	0	336	173	210	355	399
12	0	0	38	0	0	42	0	340	301	261	324	388
13	32	0	0	*45	0	0	0	343	157	323	322	351
14	0	0	0	0	0	0	0	353	280	183	322	306
15	54	0	0	0	0	57	0	375	163	330	324	307
16	0	0	0	0	0	0	0	344	275	322	324	298
17	0	44	42	0	0	12	98	341	185	217	326	216
18	36	0	0	0	0	0	0	361	271	204	328	204
19	0	0	0	0	0	58	94	372	232	323	329	212
20	17	0	0	60	0	0	98	313	271	264	327	254
21	0	0	0	0	0	0	179	301	315	248	329	207
22	25	49	0	0	0	57	6.1	341	155	311	328	297
23	0	0	0	0	97	0	65	309	197	309	333	197
24	29	0	0	0	205	0	43	365	264	204	354	196
25	0	0	0	0	0	62	99	251	148	326	421	160
26	0	0	24	0	13	0	86	319	197	326	372	161
27	0	53	0	0	33	0	87	223	225	324	315	203
28	29	0	0	0	82	59	157	279	166	322	369	83
29	0	0	0	0		0	159	288	224	319	385	112
30	38	0	0	0		0	119	293	243	217	388	104
31	0	—	0	0	—	42	—	296	—	327	384	—
Mean	17.3	8.4	8.0	3.4	16.6	24.7	47.5	298	229	261	333	287
Ac-Ft	1063	502	490	208	920	1519	2827	18300	13640	16030	20480	17070

Maximum Discharge C.F.S. For Water Year — Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 123800 — 56-57 Water Year 93050

This is drainage returned to the Sacramento River by pumping at Mile 44.OR above Sacramento. Additional water is sometimes returned to Colusa Basin Drain at Mile 19.9L above junction of Sacramento River. Period of record June 1924 to December 1940 (low-water periods only); May 1941 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 63

RECLAMATION DISTRICT 787 DRAIN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15	RECORDS SUFFICIENT TO COMPUTE ONLY MONTHLY FLOWS											
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31	—			—		—		—			—	
Mean	4.2	0.1	0.2	0.2	0.4	6.5	5.5	58.4	30.5	34.0	40.9	36.7
Ac-Ft	258	6	10	10	25	398	325	3593	1817	2089	2517	2183

Maximum Discharge C.F.S. For Water Year — Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 23850; 56-57 Water Year 13230

This is drainage returned to the Sacramento River by pumping at Mile 37.0R above Sacramento. Additional water is returned to Colusa Basin Drain below Knights Landing Outfall Gates via Sycamore Slough. Period of record May 1949 to date. Records computed by Department of Water Resources.

TABLE 64

COLUSA BASIN DRAIN AT HIGHWAY 20

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	474	603	284	116	115	242	169	603	323	601	773	720
2	462	442	309	114	108	240	176	779	763	621	757	1160
3	444	280	332	126	104	210	151	943	767	629	837	1210
4	404	257	352	115	104	198	189	1100	699	661	803	1240
5	390	247	377	115	94	189	235	1030	663	709	791	1260
6	338	237	374	123	92	178	343	953	631	723	777	1320
7	329	246	404	186	90	181	356	867	643	719	789	1540
8	347	256	390	251	114	179	411	1070	627	721	829	1620
9	354	259	354	262	103	172	375	1340	631	715	871	1570
10	428	232	323	251	91	155	420	1530	685	693	875	1480
11	399	193	305	230	91	145	417	1600	711	701	871	1430
12	368	194	399	251	91	142	361	1630	713	751	903	1380
13	356	194	438	639	90	140	444	1580	717	769	889	1330
14	341	189	336	1000	90	137	533	1490	659	779	855	1280
15	312	184	264	759	86	131	502	1310	625	761	913	1180
16	275	169	196	483	88	131	399	1190	589	737	933	1070
17	254	217	183	363	88	127	470	1080	583	727	929	979
18	289	262	178	280	90	126	825	1200	555	653	993	887
19	352	284	184	246	90	127	987	1400	531	621	946	831
20	393	262	166	293	90	131	1040	1460	552	681	975	767
21	419	246	151	336	96	123	971	1520	601	745	979	697
22	437	271	145	282	104	123	883	1560	556	837	969	677
23	446	242	150	218	143	143	729	1480	478	837	967	611
24	415	268	148	183	316	131	617	1300	491	767	983	559
25	402	228	151	164	929	126	515	1050	502	770	983	542
26	395	232	147	171	811	132	623	1000	544	797	1010	533
27	424	244	134	164	444	131	554	941	527	799	1000	697
28	419	287	131	143	291	127	466	801	51[illegible]	84[illegible]	98[illegible]	9[illegible]
29	470	271	129	135		124	512	711	523	859	1040	1 0
30	565	287	131	123		139	512	765	5[illegible]4	9[illegible]	1040	1000
31	665	—	124	115	—	123	—	851	—	21	1070	—
Mean	399	259	248	266	180	152	510	1169	[illegible]	[illegible]	918	1087
Ac-Ft	24530	15440	15250	16340	10000	9328	30320	71870	[illegible]	45[illegible]	56440	[illegible]

Maximum Discharge C.F.S. For Water Year 1630 May 12, 1957; Year of Record 5100 February [illegible], 194[illegible]

Total Discharge Ac.-Ft. For 56-Calendar Year 601000; 56-57 Water Year 394500

Station located [illegible] Mile 37.0 above [illegible]station with Sacramento River. Also known as "Colusa Trough at Colusa Wi[illegible]me[illegible] Weir" and "Colusa Trough at Highway 20". The flow is return water in the main drain of Reclamation District 2047. It is [illegible] chiefly from lands irrigated by Glenn-Colusa, Provident, Princeton-Codora-Glenn, Compton-Delevan, Maxwe[illegible], and Jacinto Irrigation Districts. Period of record June 1924 to December 1940 (low-water periods only); May 194[illegible] to date. Records computed by Department of Water Resources.

TABLE 65

COLUSA BASIN DRAIN NEAR COLLEGE CITY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	511	669	297	132	139	*310	226	*556	*940	613	844	1230
2	514	562	310	112	145	*300	272	669	*840	694	875	1270
3	511	365	336	126	134	*260	239	837	*860	656	912	1310
4	484	303	329	102	130	*240	232	997	*780	678	970	1340
5	454	284	386	108	126	*220	256	1060	746	726	926	1350
6	389	269	398	128	118	*210	352	970	733	749	895	1390
7	352	266	403	206	116	*220	392	970	707	787	895	1520
8	395	292	403	290	137	*215	423	1040	672	774	929	1640
9	398	316	378	329	159	*200	381	1270	662	749	984	1650
10	451	300	360	295	122	*180	373	1450	704	720	967	1630
11	462	249	329	269	116	*165	414	1560	781	739	990	1580
12	445	236	365	272	108	*160	384	1630	778	765	1030	1560
13	428	236	434	493	102	*157	403	1650	803	784	1040	1530
14	428	219	375	895	106	*150	520	1620	749	810	1000	1510
15	409	209	308	871	106	*140	568	1530	682	803	1020	1420
16	352	194	246	562	100	*140	*508	1390	637	765	1060	1310
17	326	254	226	409	102	*135	*442	1230	616	749	1070	1190
18	349	295	254	318	100	*130	*746	1230	580	701	1120	1060
19	375	331	226	277	72	124	*1080	1410	577	662	1150	994
20	417	326	192	279	72	*135	*1080	1760	595	707	1120	916
21	446	303	186	352	106	*132	*1040	1830	631	837	1100	837
22	456	297	172	316	130	*132	*950	1830	643	933	1090	774
23	473	290	182	264	167	*160	*841	*1750	544	939	1090	730
24	448	272	174	216	323	*150	*592	*1550	526	861	1110	685
25	448	262	165	192	*850	*143	*556	*1350	529	837	1120	675
26	437	256	165	194	*820	*150	*538	*1250	565	871	1130	646
27	456	262	154	204	*540	*147	*502	*1150	550	888	1130	752
28	465	284	148	174	*370	139	*420	*1000	541	922	1120	1050
29	484	313	139	167		*140	*456	*860	511	953	1130	1230
30	586	323	139	163		*160	*538	*920	559	919	1140	1280
31	698	—	134	143	—	*180	—	*980	—	841	1190	—
Mean	447	301	268	286	201	175	524	1268	669	788	1037	1202
Ac-Ft	27460	17920	16490	17570	11140	10760	31190	77950	39790	48460	63760	71520

Maximum Discharge C.F.S. For	Water Year		Total Discharge Ac.-Ft. For	56-Calendar Year	639300
	Year of Record			56-57 Water Year	434000

Station located on Back Borrow Pit of Reclamation District 108 at Mile 22.5L above junction with Sacramento River. Also known as "Back Borrow Pit near College City" and "Colusa Trough near College City". This is drainage chiefly from lands irrigated by Glenn-Colusa, Provident, Princeton-Codora-Glenn, Compton-Delevan, Maxwell, and Jacinto Irrigation Districts. Backwater from Knights Landing Outfall Gates at times affects stage-discharge relationship of this station. Period of record October 1944 to April 1952; March 1954 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 66

COLUSA BASIN DRAIN AT KNIGHTS LANDING

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	576	382	291	114	126	0	420	352	792	412	669	1070
2	576	522	288	108	133	0	452	432	810	516	687	1200
3	600	452	312	102	122	0	406	674	820	604	730	1250
4	616	297	328	105	114	0	368	792	846	564	790	1240
5	592	248	371	95	114	0	328	894	616	556	825	1250
6	560	227	401	94	110	0	265	960	673	608	810	1250
7	504	200	412	108	92	0	294	936	745	648	740	1320
8	504	190	416	181	110	0	334	888	732	672	735	1470
9	445	210	416	273	129	0	400	1010	692	676	810	1560
10	453	210	401	294	128	0	408	1170	593	624	845	1680
11	497	197	375	270	114	0	223	1420	600	608	845	1700
12	505	174	365	267	102	0	114	1480	732	624	870	1650
13	475	164	386	325	94	0	124	1410	808	624	910	1610
14	460	168	423	642	100	0	215	1420	792	628	925	1590
15	449	139	361	550	82	0	340	1330	768	668	885	1530
16	416	145	306	666	86	0	*500	1200	648	676	895	1450
17	371	145	243	582	86	0	*448	1170	552	668	940	1330
18	352	212	204	440	86	0	*420	1180	472	584	940	1150
19	361	260	193	364	82	0	*1260	300	408	532	1050	924
20	393	254	193	341	*72	0	*1370	0	412	512	1010	941
21	430	279	193	322	*71	0	*1160	0	484	552	1000	924
22	453	262	160	227	*88	0	*872	0	536	707	996	907
23	486	267	153	240	*36	0	*864	0	488	845	990	629
24	475	260	161	270	0	0	*578	0	444	790	990	537
25	449	254	168	248	0	0	412	0	404	715	990	651
26	438	251	165	224	0	105	352	0	376	715	990	615
27	445	248	161	172	0	528	375	0	396	760	996	616
28	438	248	149	165	0	582	312	0	392	785	996	738
29	397	290	145	170	0	564	104	0	376	790	996	763
30	438	306	135	145	0	408	142	600	384	790	1000	1010
31	486	—	134	139	—	320	—	696	—	785	1010	—
Mean	472	249	271	266	81.3	80.9	462	655	593	653	899	1152
Ac-Ft	29040	14800	16680	16350	4516	4973	27490	40290	35290	40140	55270	68540

Maximum Discharge C.F.S. For	Water Year		Total Discharge Ac.-Ft. For	56-Calendar Year	325000
	Year of Record			56-57 Water Year	353400

This is drainage returned to the Sacramento River at Mile 34.15R above Sacramento, 0.15 miles above the Knights Landing gaging station. Flows are controlled at the Knights Landing Outfall Gates, Mile 0.25 above junction with Sacramento River. A portion of the flow is diverted to Ridge Cut at Knights Landing. For total flow to Sacramento River, combine with flows of Sycamore Slough. Period of record May 1924 to October 1939 (low water periods only); January 1940 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 67

SYCAMORE SLOUGH NEAR KNIGHTS LANDING

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15	RECORDS SUFFICIENT TO COMPUTE ONLY MONTHLY FLOWS											
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31	—				—		—		—			—
Mean	0.9	0.3	0.2	0.4	2.9	4.0	1.6	12.0	5.1	6.2	4.9	4.2
Ac-Ft	54	17	12	22	163	248	94	735	301	379	304	248

Maximum Discharge C.F.S. For Water Year —
Year of Record —

Total Discharge Ac.-Ft. For 56-Calendar Year 6718
56-57 Water Year 2577

This is drainage from Reclamation District 787 returned to Colusa Basin Drain by pumpin below the Knights Landing outfall gates. This flow is not included in flow of Colusa Basin Drain at Knights Landing. Daily distribution of flows is not available since the plant operates on an automatic float switch. Additional drainage from Reclamation District 787 is returned to the Sacramento River at Mile 37.OR above Sacramento. Period of record January 1940 to date. Records computed by Department of Water Resources.

TABLE 68

SACRAMENTO RIVER AT KNIGHTS LANDING

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	8660	10000	7710	6810	5750	23500	10400	4650	12200	5750	6050	6500
2	8720	10900	7650	6600	5680	23000	10100	4850	11800	5950	5890	6590
3	8170	10300	7780	6600	5690	24000	9860	5170	11300	6160	5890	6670
4	7680	9510	7700	6410	5660	24600	9190	5160	11100	6070	6050	6780
5	7760	9050	7590	6450	5470	24400	8710	6620	10700	6180	6110	6750
6	7670	8970	7790	6390	5320	24500	8130	6260	10100	6280	6010	6610
7	7730	8790	7870	6340	5240	24900	7730	6270	9840	6200	6090	6560
8	7570	8810	8210	6310	5220	24800	7540	6710	9290	6220	5970	6930
9	7770	8760	8030	6390	5080	23900	7060	7100	8500	6030	5990	7240
10	7760	8740	8050	6480	5220	23300	6530	7590	8090	5960	6150	7240
11	7760	8760	7940	6580	5240	22700	5800	8630	7820	5930	6290	7300
12	7760	8660	7950	6500	5180	21300	5190	9320	8020	5820	6480	7400
13	7880	8460	8040	6370	5210	20400	4810	10200	7720	5960	6260	7420
14	8020	8410	8180	7850	5230	21500	4940	10400	7450	6000	6030	7570
15	7980	8320	8260	11900	5140	19700	5020	10600	7220	6120	5810	7760
16	7880	8240	8250	11000	5150	18000	6390	10800	6910	6200	5810	7870
17	7810	8320	8130	9660	5090	20700	7010	10800	6810	6260	5760	7780
18	7830	8250	8030	8480	5300	24100	6420	10600	6470	6200	5750	7730
19	7840	8280	7810	7630	5160	23800	7220	8210	6290	6170	6010	7640
20	7840	8260	7830	7160	5280	21900	9100	16600	6010	6110	5890	7760
21	7850	8200	7900	7030	5350	19300	10300	22100	6120	6200	5840	7710
22	7930	8200	7920	8720	5600	17400	11300	22600	5930	6400	5760	7710
23	7950	8170	7980	8640	6400	16900	10500	21900	5770	6300	5840	7370
24	8040	8000	7970	7710	10800	15900	9430	19800	5640	6220	5910	6930
25	8020	7920	7760	7040	19000	14600	8270	16800	5530	6200	6000	6900
26	8040	7930	7620	6760	23000	13800	7540	15700	5380	6200	5960	6860
27	8140	7810	7560	6460	24000	13100	6640	15200	5400	6140	5880	6800
28	8260	7780	7550	6270	24000	12400	5730	14400	5350	6060	5900	7820
29	8520	7740	7440	6120		11300	5130	13900	5430	6160	6070	11400
30	8660	7690	7280	5980		10500	4510	12300	5480	6250	6180	14300
31	8790	—	7100	5890	—	10500	—	12300	—	6240	6280	—
Mean	8009	8574	7835	7243	8016	19700	7550	11440	7656	6127	5997	7597
Ac-Ft	492500	510200	481700	445300	445200	1211000	449300	703200	455500	376700	368700	452000

Maximum Discharge C.F.S. For Water Year 25,200 March 7, 1957
Year of Record 27,900 February 9, 1942

Total Discharge Ac.-Ft. For 56-Calendar Year 8470000
56-57 Water Year 6391000

Station located above the Southern Pacific Railroad bridge, Mile 34.0L above Sacramento, 0.15 mile below junction of Colusa Basin Drain. Period of record April 1921 to October 1938 (low-water periods only); January 1939 to date. Records computed by U. S. Geological Survey.

TABLE 69

FREMONT WEIR FROM SACRAMENTO RIVER TO YOLO BYPASS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1					0	*24100		0				
2					0	*10900		0				
3					0	*5320		0				
4					0	*4900		0				
5					0	*12200		0				
6					0	*30100		0				
7	N	N	N	N	0	*37100	N	0	N	N	N	N
8					0	*33500		0				
9	0	0	0	0	0	*28800	0	0	0	0	0	0
10					0	*20600		0				
11					0	*9170		0				
12					0	*1880		0				
13					0	*161		0				
14					0	*3		0				
15					0	0		0				
16	F	F	F	F	0	0	F	0	F	F	F	F
17	L	L	L	L	0	0	L	0	L	L	L	L
18					0	0		0				
19	0	0	0	0	0	0	0	0	0	0	0	0
20	W	W	W	W	0	0	W	2	W	W	W	W
21					0	0		2520				
22					0	0		5040				
23					0	0		2260				
24					0	0		33				
25					*230	0		0				
26					*25000	0		0				
27					35300	0		0				
28					35300	0		0				
29						0		0				
30						0		0				
31		—			—	0	—	0	—			—
Mean	0	0	0	0	3422	7056		318	0	0	0	0
Ac-Ft	0	0	0	0	190100	433900		19550	0	0	0	0

Maximum Discharge C.F.S. For Water Year Year of Record 293,800 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 4430000; 56-57 Water Year 643600

Station located on Sacramento River at Mile 28.OR above Sacramento. Elevation of crest is 33.5 U.S.E.D. datum; length of crest is 9,120 feet. Period of record January 1947 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 70

BUTTE SLOUGH TO SUTTER BYPASS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	*72	213	20	28	27	10000	258	150	545	194	156	70
2	63	249	18	29	24	6690	222	156	447	187	170	74
3	43	*198	19	32	*20	6000	181	165	367	181	162	82
4	35	*181	26	35	*14	9700	138	181	305	192	157	81
5	33	*168	35	38	11	13900	111	156	265	191	194	71
6	34	*154	41	39	9.7	18400	88	201	208	186	189	63
7	32	*141	41	56	14	23000	80	194	169	192	163	66
8	32	*128	36	83	19	24900	132	212	215	204	180	74
9	32	*115	35	99	20	21200	195	220	185	182	188	70
10	31	*103	35	112	23	14400	197	243	140	171	192	67
11	26	*91	38	114	25	8800	149	267	128	176	174	76
12	26	*79	42	119	48	5840	136	278	132	193	167	79
13	32	*68	44	137	62	4670	182	309	165	193	162	68
14	33	62	45	320	50	3670	236	310	179	179	157	74
15	32	69	49	418	39	2780	216	349	181	176	156	59
16	33	60	48	273	36	2180	304	281	180	167	156	59
17	33	48	48	211	33	1980	199	260	165	167	167	51
18	34	39	48	157	29	1820	176	250	151	173	170	49
19	33	35	48	118	26	1670	243	470	168	174	170	43
20	35	36	48	97	32	1540	323	1070	186	173	152	41
21	35	36	49	125	72	1440	425	1410	179	183	138	40
22	39	35	51	186	135	1330	464	1610	168	185	137	35
23	45	28	53	147	155	1230	353	1480	168	170	135	31
24	48	18	47	111	343	1100	226	1460	164	176	117	31
25	53	24	44	90	1030	856	157	1400	177	175	127	20
26	59	24	44	88	4150	695	125	1170	188	161	125	6.8
27	67	24	45	87	10800	594	132	1100	177	163	125	3.7
28	72	23	46	70	12000	425	171	1000	175	176	114	45
29	81	22	43	47		326	162	925	173	167	89	442
30	87	22	39	38		271	146	692	174	161	81	472
31	116	—	32	30	—	293	—	638	—	155	76	—
Mean	46.0	83.1	40.6	114	1045	6184	204	600	207	178	150	81.4
Ac-Ft	2828	4945	2493	7010	58010	380200	12150	36910	12350	10950	9215	4847

Maximum Discharge C.F.S. For Water Year Year of Record 25,400 March 8, 1957

Total Discharge Ac.-Ft. For 56-Calendar Year 3650000; 56-57 Water Year 541900

Station located at Mawson Bridge, Mile 2.1 above junction with Sacramento River. During the summer months, flow, regulated by gates at head of Slough, is made up almost entirely of return water from lands irrigated by Feather River diversions. During flood periods, Sacramento River water enters Butte Basin above Butte City by bank spill and over Moulton and Colusa Weirs. Period of record January 1939 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 71

WADSWORTH CANAL TO SUTTER BYPASS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	120	72	21	11	19	88	81	12	*130	88	21	59
2	108	61	20	8.4	16	71	77	60	*121	91	17	74
3	120	44	20	8.4	14	72	52	75	*112	94	2.1	84
4	106	37	22	9.1	11	88	66	71	*102	120	0.1	91
5	90	33	20	9.1	10	97	110	34	104	121	11	98
6	81	34	18	7.9	9.1	76	121	68	79	100	4.2	109
7	75	33	20	9.1	9.1	65	98	104	90	96	6.1	135
8	86	35	20	18	9.1	62	120	122	79	98	14	143
9	80	34	19	14	7.3	68	112	132	98	86	33	153
10	84	35	20	9.7	7.9	77	91	103	108	60	20	143
11	96	31	17	19	7.3	74	94	91	120	66	34	154
12	96	37	16	7.9	7.3	74	126	106	*120	61	38	166
13	88	36	12	11	7.3	67	124	124	*103	59	42	131
14	91	31	10	14	6.8	68	126	134	*112	67	30	104
15	94	28	11	20	6.8	67	120	154	*102	77	46	148
16	91	23	11	17	7.3	67	111	153	*98	65	59	199
17	94	23	10	17	8.4	66	130	161	*81	56	61	195
18	102	21	12	18	8.4	63	137	217	*72	67	63	163
19	96	20	10	18	3.2	60	132	262	59	68	65	159
20	93	22	12	31	3.0	57	142	254	51	60	71	156
21	86	25	10	26	11	55	108	276	54	57	76	161
22	96	25	9.7	23	16	51	83	258	62	70	84	163
23	100	23	9.7	21	50	51	67	246	56	66	75	163
24	100	22	9.1	22	256	48	57	203	60	68	67	158
25	100	26	8.4	22	315	37	34	178	50	53	61	154
26	97	24	9.7	20	260	32	26	180	41	45	65	145
27	96	27	9.1	20	183	51	11	164	54	25	70	192
28	100	24	10	20	109	54	0	151	76	24	66	219
29	106	24	11	20		60	0	161	81	10	52	201
30	97	24	12	19		61	0	150	79	4.1	51	192
31	108	—	11	19	—	74	—	140	—	10	61	—
Mean	96.0	31.1	13.9	16.4	49.2	64.5	85.2	147	85.1	65.6	44.0	147
Ac-Ft	5905	1853	854	1011	2734	3969	5070	9013	5066	4031	2708	8751

Maximum Discharge C.F.S. For Water Year / Year of Record 1,390 December 21, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 117800 / 56-57 Water Year 50960

Station located at Butte House Road, Mile 3.6 above mouth. This is the discharge (measured at Weir No. 4) to the East Borrow Pit of the Sutter Bypass at Mile 16.5 northerly of Chandler. This flow is made up primarily of Feather River drainage or return flows. This flow and flow of Butte Slough to Sutter Bypass make up the entire Feather River contribution to the Sutter Bypass. Period of record January 1939 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 72

RECLAMATION DISTRICT 1500 DRAIN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	90	0		0	0	55	31	446	192	305	596	543
2	90	0		0	0	59	32	343	509	610	623	552
3	90	0		0	0	308	0	230	256	610	637	493
4	90	0		0	0	115	33	230	208	623	623	562
5	89	49		0	0	174	61	278	283	623	623	502
6	60	24		0	0	112	61	98	253	581	610	502
7	91	0	N	0	0	173	55	230	290	581	637	510
8	60	24		0	0	171	45	363	160	581	637	450
9	61	24	0	0	0	57	37	475	357	581	623	514
10	61	24		0	0	280	35	357	244	610	623	514
11	93	24		0	0	115	49	293	260	623	596	514
12	59	32		0	0	119	43	433	263	649	581	446
13	60	24		403	0	120	0	288	263	663	566	446
14	60	24		36	0	61	0	290	66	649	581	514
15	60	24		36	0	123	70	291	0	663	610	514
16	30	36	F	33	0	62	55	356	364	663	637	446
17	62	32	L	24	0	147	75	290	364	663	637	446
18	31	32	0	0	0	62	43	260	288	649	623	446
19	30	32	W	0	0	62	56	631	344	649	623	364
20	61	32		0	0	125	60	409	390	649	596	364
21	60	24		0	0	63	64	608	411	649	581	258
22	95	24		0	264	63	92	606	234	663	581	258
23	58	24		0	95	64	51	476	486	663	581	258
24	56	24		0	182	64	94	364	519	610	610	258
25	43	24		0	60	64	97	309	536	596	596	258
26	43	0		0	166	56	98	477	551	596	596	260
27	45	2.0		0	110	59	49	249	566	610	900	256
28	61	0		0	170	61	0	251	596	596	513	139
29	44	0		0		62	446	253	596	610	523	293
30	0	0		0		63	364	483	610	596	533	96
31	85	—		0	—	62	—	255	—	596	543	—
Mean	61.9	18.6	0	17.2	37.4	103	73.2	352	349	613	608	399
Ac-Ft	3804	1109	0	1055	2077	6309	4356	21660	20750	37710	37370	23750

Maximum Discharge C.F.S. For Water Year / Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 242900 / 56-57 Water Year 160000

This is drainage returned, via Sacramento Slough, to the Sacramento River by pumping and gravity at Mile 21.2L above Sacramento. Period of record April 1930 to October 1938 (low-water periods only); January 1939 to date. Records computed by Department of Water Resources.

TABLE 73

SACRAMENTO SLOUGH TO SACRAMENTO RIVER

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	313	*207	*136	207	294		677	225	1460	*508	*546	696
2	361	*33	*195	*244	271		599	230	1250	*472	463	691
3	352	*303	*220	*243	286		507	204	1100	*442	448	718
4	351	*284	466	*255	292	F	508	354	1120	*478	458	702
5	265	*437	*448	*288	254	L	434	485	960	*463	505	655
6	294	*606	*233	*321	243	O	369	271	945	*607	487	668
7	219	*592	192	*376	219	O	313	280	855	*632	481	782
8	266	*257	219	*192	225	D	346	476	766	*634	476	779
9	269	*237	197	*164	231	E	290	293	883	*693	500	781
10	271	*277	192	*173	290	D	275	736	713	*666	484	766
11	288	*315	204	*186	269		301	730	699	*647	506	798
12	277	*466	213	*174	261		338	848	661	*536	520	780
13	236	*490	237	*451	266		303	608	662	*480	588	751
14	319	*447	242	*908	285		320	521	600	*462	616	767
15	264	*406	226	*396	282		588	1440	576	*462	573	784
16	258	*422	272	*488	318		483	1630	600	*457	559	764
17	239	*431	238	*508	332	2430	524	811	607	*415	534	914
18	237	*352	253	*639	339	2340	478	1040	545	*409	561	867
19	219	*327	235	*527	296	2810	458	0	596	*422	606	841
20	219	*239	270	*488	343	3330	620		602	*415	673	635
21	237	*255	287	*392	360	3770	591		504	*350	781	590
22	207	*239	250	*620	319	3330	316		490	*184	784	530
23	226	*321	277	*580	559	3000	711	F	566	*148	736	560
24	259	*264	240	*470	56	2610	705		600	*521	698	505
25	215	*256	216	*410		2390	632		602	*618	680	424
26	266	*161	228	*485	F	2100	512	3100	532	*588	628	409
27	236	*157	227	*362		1650	448	3920	505	*549	720	375
28	209	*115	211	*397		1240	326	3380	490	*530	675	119
29	286	*115	234	*297		896	304	2450	482	*500	673	85
30	304	*76	229	304		823	231	2350	513	*567	737	495
31	108		226	286		760		1930		*524	747	
Mean	260	303	242	370			450		716	496	595	641
Ac-Ft	16010	18020	14900	22750			26790		42610	30500	36580	38140

Maximum Discharge C.F.S. For	Water Year / Year of Record	Total Discharge Ac.-Ft. For	56-Calendar Year / 56-57 Water Year

During low flow, this represents the entire outflow of the Sutter Bypass area and Reclamation District 1500 Drain to the Sacramento River at Mile 21.2L above Sacramento. Sharp rises in Sacramento River elevations will cause zero or negative flow. During high flow, the slough is entirely submerged as it lies within the bypass area. Tisdale Weir, Butte Slough to Sutter Bypass, Wadsworth Canal to Sutter Bypass, and Reclamation District 1500 Drain when combined will give the measured flow into the bypass area which enters the Sacramento River between Mile 20.9 and 28.0 above Sacramento. Period of record May 1924 to October 1938 (low water periods only); January 1939 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 74

LITTLE LAST CHANCE CREEK NEAR CHILCOOT

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	2.0	11	5.0	7.0	9.3	117	66	63	63	6.3	1.5	0.3
2	2.2	11	4.7	7.5	8.8	117	55	69	58	6.1	1.5	0.3
3	2.2	9.8	5.0	8.5	8.4	98	55	60	49	5.8	1.4	0.4
4	2.2	10	7.1	7.1	8.4	90	58	57	43	5.2	1.2	0.3
5	2.4	10	5.7	7.6	8.4	136	64	58	35	4.2	0.7	0.2
6	2.2	11	5.0	6.7	8.5	125	68	62	29	4.4	0.6	0.2
7	2.4	11	6.0	7.2	8.0	114	61	61	28	4.5	0.6	0.1
8	4.1	11	5.7	6.4	8.0	102	60	57	24	4.6	0.6	0.1
9	4.1	11	6.6	7.7	7.6	112	60	54	24	5.1	0.5	0.1
10	4.4	10	7.5	8.7	8.1	87	61	51	25	4.5	0.4	0.1
11	7.1	9.8	16	8.7	8.6	81	60	50	21	4.6	0.3	0.2
12	6.0	9.8	16	8.7	10	83	56	46	17	4.4	0.3	0.3
13	5.0	9.3	14	9.7	13	74	54	45	16	4.2	0.3	0.4
14	4.7	8.0	11	9.8	24	71	63	41	13	4.0	0.3	0.3
15	4.7	7.5	8.4	10	35	76	55	37	12	3.8	0.1	0.3
16	4.4	8.4	9.3	9.3	42	65	53	33	11	3.9	0.1	0.4
17	4.4	8.9	7.1	9.3	40	58	50	31	12	3.4	0.1	0.9
18	4.4	8.4	7.1	9.4	44	55	53	70	11	3.2	0.1	1.2
19	4.4	5.0	6.6	9.4	49	52	48	93	11	3.6	0.1	0.9
20	4.4	5.4	6.3	8.9	45	50	51	64	10	3.2	0.2	0.7
21	4.4	6.0	5.7	9.5	45	56	64	58	10	3.5	0.2	0.7
22	4.7	5.7	5.0	11	58	46	63	59	9.4	4.0	0.2	0.7
23	6.0	6.0	6.6	9.0	224	43	56	75	8.2	4.0	0.3	0.7
24	6.0	6.0	6.6	9.1	571	42	54	60	7.4	3.6	0.2	0.5
25	6.6	5.7	5.7	9.1	433	42	53	55	7.6	3.2	0.2	0.6
26	10	5.4	5.4	9.1	226	41	52	53	7.3	2.8	0.2	0.6
27	11	5.0	5.4	9.1	166	43	53	53	7.0	2.8	0.2	0.8
28	7.5	5.0	5.7	9.7	129	49	56	57	7.2	2.4	0.4	1.1
29	6.6	5.0	6.3	9.7		62	61	72	6.9	2.1	0.4	1.5
30	11	5.4	7.1	9.7		67	60	107	6.6	2.1	0.4	1.9
31	12		6.3	9.8		68		75		1.8	0.4	
Mean	5.3	8.0	7.0	8.8	80.1	74.9	57.4	58.9	19.7	3.9	0.5	0.6
Ac-Ft	324	479	448	540	4451	4606	3418	3622	1169	241	28	33

Maximum Discharge C.F.S. For	Water Year / Year of Record	931 February 24, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year / 56-57 Water Year	57650 / 19360

Station located 4.5 miles north of Chilcoot. Drainage area is 85 square miles. Period of record July 1954 to date. Records computed by Department of Water Resources.

TABLE 75

SMITHNECK CREEK NEAR LOYALTON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	5.3	8.7	*5.2	6.6	*7.0	24	21	14	18	4.8	3.2	3.2
2	5.6	8.4	5.3	6.6	*7.0	23	20	16	17	4.8	3.2	3.0
3	5.6	7.5	*5.1	6.3	*7.0	20	20	12	15	4.6	3.2	2.0
4	5.8	7.5	*5.2	6.9	*7.0	19	22	12	14	4.4	3.0	3.0
5	5.8	7.7	5.6	6.9	*7.0	19	24	14	13	4.2	3.2	3.0
6	5.3	7.7	*6.3	6.9	*7.0	21	22	13	13	4.6	3.6	3.0
7	7.5	7.5	*5.3	6.6	*7.0	21	20	13	12	4.4	3.6	3.2
8	7.2	8.1	*5.4	6.3	6.9	21	20	12	11	4.4	3.6	3.2
9	6.3	8.4	*5.4	*6.4	6.1	21	19	11	11	4.2	3.4	3.2
10	6.6	8.1	*5.4	*6.4	6.1	17	18	12	13	4.0	3.4	3.2
11	8.0	7.5	*5.5	*6.5	5.8	16	16	11	11	3.8	3.2	3.2
12	6.1	7.2	10	*6.6	7.5	16	16	10	9.7	3.8	3.2	3.4
13	6.1	7.2	11	*6.6	18	16	15	10	9.0	4.0	3.2	3.8
14	5.8	6.6	9.3	*6.8	14	15	19	10	9.0	4.0	3.2	3.8
15	5.3	6.6	7.5	6.9	13	16	16	10	8.4	4.0	3.2	3.8
16	5.6	6.9	7.7	6.9	13	14	15	8.7	8.1	3.8	3.0	4.0
17	5.6	6.9	7.2	*6.8	13	14	14	8.7	7.5	3.8	2.8	4.6
18	5.8	6.6	7.2	*6.6	12	14	14	20	7.2	3.8	2.8	4.8
19	5.8	4.6	6.3	*6.3	12	14	13	31	6.9	4.0	2.8	4.4
20	6.1	5.6	5.8	*6.0	11	14	13	23	6.6	4.0	2.8	4.4
21	5.8	6.3	4.8	5.8	12	15	13	22	6.6	4.0	2.8	4.4
22	6.1	*6.0	6.9	*6.0	12	13	13	21	6.3	4.2	2.8	4.2
23	7.2	*5.9	6.9	*6.4	24	13	13	23	6.1	4.0	2.7	4.0
24	6.9	*5.8	7.2	6.9	46	14	13	20	5.8	3.8	2.7	4.0
25	8.1	*5.7	6.9	6.9	45	16	13	18	5.6	3.6	2.8	4.2
26	9.7	*5.6	6.6	6.9	35	17	13	17	5.3	4.0	2.7	4.2
27	9.3	5.8	6.9	7.4	29	18	13	19	5.3	4.0	2.8	4.4
28	7.7	*6.5	7.2	6.9	25	21	14	18	5.3	3.6	2.8	4.8
29	7.5	*6.4	6.6	*7.0		22	15	23	5.3	3.6	3.0	4.6
30	11	*5.3	6.6	*7.0		21	14	28	5.1	3.4	3.2	5.1
31	9.0	—	6.1	*7.0	—	22	—	22	—	3.2	3.2	—
Mean	6.8	6.8	6.6	6.6	14.8	17.6	16.4	16.2	9.2	4.0	3.1	3.8
Ac-Ft	416	406	405	409	824	1085	974	996	550	248	189	228

Maximum Discharge C.F.S. For	Water Year	81.9 February 24, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	18020
	Year of Record	702 December 23, 1955		56-57 Water Year	6730

Station located 4 miles southeast of Loyalton. Drainage area is 20 square miles. Period of record July 1954 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 76

WEBBER CREEK NEAR SIERRAVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept.
1	15	20	14	13		58	41	57	92	81	16	9.8
2	16	19	13	12		56	36	64	90	82	15	9.8
3	15	18	14	13		48	37	55	88	80	15	9.4
4	15	17	15	14		49	41	54	85	79	14	9.4
5	15	17	16	13	*11	75	44	57	86	75	14	9.4
6	15	17	17	13		70	43	58	83	71	14	9.0
7	19	17	*17	11		65	36	59	85	66	14	8.6
8	19	18	*18			62	32	57	85	61	14	8.6
9	17	18	*19		11	74	40	53	85	56	13	8.2
10	20	18	20		11	57	42	54	81	53	12	8.2
11	28	17	22		13	52	41	59	79	48	12	8.2
12	19	16	21		14	54	38	58	79	44	12	8.2
13	18	16	20		20	45	38	58	79	41	12	8.6
14	16	15	19		21	41	60	57	75	38	11	8.6
15	16	15	17		19	41	48	56	77	36	11	8.6
16	15	15	16		19	38	44	60	75	35	10	8.6
17	15	15	15		20	35	41	63	81	33	10	9.8
18	16	14	14		19	33	41	121	89	33	9.8	11
19	15	14	14	*11	19	33	36	105	91	31	9.8	9.8
20	14	14	14		18	33	36	89	90	29	9.9	9.8
21	14	14	14		19	34	36	84	88	28	9.8	9.4
22	14	14	*14		18	30	33	76	85	26	9.8	9.4
23	17	14	*14		62	28	33	74	83	26	9.8	9.0
24	16	14	14		157	28	33	68	87	24	9.8	9.0
25	18	14	14		146	30	33	67	86	23	9.8	9.0
26	26	14	*14		107	30	34	71	85	21	9.4	9.0
27	24	14	*14		83	31	3	78	83	21	9.0	9.0
28	19	14	*14		65	37	39	78	83	20	9.4	9.4
29	17	14	14			46	45	81	82	20	9.8	9.8
30	43	14	13			45	47	86	79	18	9.8	12
31	26	—	13	—	—	44	—	86	—	16	9.5	—
Mean	18.4	15.7	15.7	11.4	39.9	45.2	39.7	69.1	[illegible].9	42.4	11.4	9.[illegible]
Ac-Ft	1134	932	966	700	1884	2781	2360	4[illegible]	4990	[illegible]08	70[illegible]	546

Maximum Discharge C.F.S. For	Water Year	224 February 24, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	41[illegible]00
	Year of Record	582 December 23, 1955		56-57 Water Year	[illegible]360

Station located 1.4 miles south of Sierraville. Period of record July 1954 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 77

MILLER CREEK NEAR SATTLEY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	7.1	*9.8	*6.2	5.4	5.6	12	9.7	19	36	16	8.5	*6.0
2	7.1	8.7	*6.0	5.4	5.6	12	9.2	19	36	16	*8.0	*5.8
3	7.1	8.5		5.4	*5.4	11	9.7	17	36	16	7.5	5.8
4	8.2	8.2		5.4	*5.2	11	11	19	37	16	7.3	5.8
5	8.0	8.5		5.4	5.2	18	12	21	38	*14	7.3	5.8
6	7.3	8.0	*7.3	5.2	5.2	17	13	22	35	14	7.8	5.6
7	*8.0	8.2		5.4	5.2	15	12	20	35	14	7.8	5.6
8	*7.6	8.5			5.4	14	12	19	33	14	7.8	5.6
9	8.0	8.7			5.2	14	13	17	31	13	7.5	5.6
10	12	9.0			5.4	12	13	18	31	13	7.5	*5.6
11	14	8.7	*8.4	*5.6	6.2	11	12	17	29	12	7.3	*5.4
12	9.4	8.5	*8.1		6.2	10	12	16	29	12	7.3	5.4
13	8.5	8.0	7.8		9.0	9.9	12	17	28	12	7.1	5.6
14	8.0	*7.8	7.3		8.2	9.4	19	16	27	11	7.1	5.4
15	7.8	*7.6	6.9	5.6	6.9	9.2	15	16	25	11	6.9	5.6
16	7.5	*7.4	6.9	5.6	6.9	8.7	14	17	24	10	6.9	5.4
17	7.3	7.1	6.7	5.6	6.9	8.5	13	17	22	10	*6.7	6.2
18	7.5	6.9	6.7	5.6	6.7	8.2	*12	51	22	10	6.9	5.8
19	7.5	6.5	*6.7	5.6	6.5	8.0	11	38	21	10	6.7	5.8
20	7.3	9.2	*6.6	5.2	6.2	8.0	11	26	21	9.7	6.7	5.6
21	*7.1	7.3	*6.4	5.8	6.2	8.2	10	24	20	9.7	6.7	5.6
22	*7.0	6.7	*6.2	*5.8	6.5	7.8	11	23	20	9.7	6.7	5.4
23	*7.0	6.5	*6.1	*5.8	9.0	7.8	11	22	19	9.4	6.5	5.4
24	*8.0		*5.9	*5.8	19	7.8	12	22	19	9.4	6.5	5.2
25	9.9		5.8	5.8	25	8.2	12	24	18	9.4	6.2	5.4
26	18		*5.8	5.8	20	8.2	13	27	18	9.7	6.0	5.2
27	11	*6.2	*5.7	5.8	17	9.2	14	28	18	9.4	6.0	5.6
28	9.7		5.6	*5.8	14	10	17	29	18	9.4	6.2	6.7
29	9.4		5.6	5.4		13	17	30	18	9.2	6.2	6.2
30	11		5.4	5.6		11	18	33	17	9.0	6.2	8.0
31	11		*5.4	5.6		10		*33		9.0	*6.2	
Mean	8.8	7.6	6.7	5.6	8.6	10.6	12.7	23.1	26.0	11.5	7.0	5.7
Ac-Ft	544	452	410	343	476	651	755	1422	1549	708	428	341

Maximum Discharge C.F.S. For	Water Year	83 May 18, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	11740
	Year of Record	213 December 23, 1955		56-57 Water Year	8079

Station located one mile south of Sattley. Drainage area is 7.6 square miles. Period of record September 1954 to date.
Records computed by Department of Water Resources.
* Estimated

TABLE 78

MIDDLE FORK FEATHER RIVER NEAR PORTOLA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	0.3	80	40	31		939	296	131	181	3.0		
2	0.3	92	40	32		756	293	146	163	8.6		
3	0.5	124	38	36		594	309	142	148	11		
4	2.3	149	44	31		491	309	116	133	11		
5	3.2	132	42	37		711	275	109	114	13		
6	3.7	109	*30	34	*30	614	254	124	88	7.1		
7	4.6	85	*19	33		580	174	148	69	4.0		
8	6.3	73	*18	28		565	178	159	50	2.6		
9	8.5	62	*19	24		619	200	157	32	1.5		
10	8.8	59	*22	26		531	195	146	34	1.2		
11	16	62	*26	25		545	181	137	36	0.7		
12	21	61	53	23	39	517	159	129	34	0.5	N	N
13	20	55	81	36	38	500	150	137	33	0.4	O	O
14	20	53	99	32	45	509	260	135	31	0.3		
15	20	51	130	28	64	513	200	127	30	0.2		
16	22	49	176	27	186	439	176	114	28	0.2	F	F
17	22	50	176	26	313	376	197	109	26	0.1	L	L
18	22	52	147	26	447	330	242	249	24	0	O	O
19	21	42	109	32	811	309	231	545	22	0	W	W
20	18	38	89	33	711	302	236	368	221	0		
21	17	39	72		594	290	313	313	20	0		
22	18	39	60		609	239	306	459	19	0		
23	21	36	53		744	226	272	640	17	0		
24	22	34	44		1650	229	234	545	14	0		
25	23	35	40	*30	*3620	236	126	451	13	0		
26	29	33	39		*3080	223	168	376	9.3	0		
27	38	34	37		1900	218	155	320	7.6	0		
28	42	36	34		1260	239	146	278	6.0	0		
29	44	38	30			263	140	269	4.7	0		
30	61	40	30			278	137	260	4.0	0		
31	73		28			290		210		0		
Mean	20.3	61.4	60.2	30.0	587	435	217	244	47.0	2.1	0	0
Ac-Ft	1247	3654	3699	1845	32610	26720	12920	14970	2800	130	0	0

Maximum Discharge C.F.S. For	Water Year	3,880 February 25, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	290400
	Year of Record			56-57 Water Year	100600

Station located 2 miles east of Portola. Period of record November 1955 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 79

RED CLOVER CREEK NEAR GENESEE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	17	31	20	30	*24	256	170	113	96	17	11	12
2	17	28	20	*29	*24	256	145	122	83	16	11	12
3	17	28	20	28	*24	210	130	116	73	16	11	11
4	18	27	21	27	*24	199	126	102	65	15	10	12
5	17	26	23	27	*23	424	132	97	59	15	10	12
6	17	25	22	26	*23	321	138	95	54	15	10	11
7	16	25	22	*25	23	276	123	91	50	16	9.8	11
8	17	27	*24	22	23	236	117	90	47	15	10	12
9	17	27	*26	*22	23	338	111	86	44	15	9.5	12
10	19	26	*27	*22	22	228	110	83	46	15	9.5	12
11	25	25	30	*23	23	201	107	81	43	15	10	12
12	22	25	48	26	24	213	102	73	38	15	10	12
13	20	24	41	35	30	192	97	71	35	15	9.8	12
14	19	24	38	29	43	173	151	69	33	15	9.2	12
15	18	23	33	26	47	197	128	63	32	15	9.2	12
16	17	22	30	26	54	197	113	60	31	16	9.5	13
17	17	22	29	25	60	151	111	56	29	16	9.5	13
18	17	22	27	*25	68	136	116	99	27	15	9.5	13
19	17	22	25	*25	72	126	108	318	26	15	9.5	13
20	17	22	24	*26	77	123	107	208	24	14	9.8	14
21	17	20	*23	*26	78	134	162	145	24	14	10	14
22	17	20	*23	*26	126	122	210	125	24	14	10	13
23	19	20	*22	*26	510	107	162	160	24	13	10	13
24	21	20	*22	*26	1820	108	143	130	24	13	11	13
25	21	20	22	*26	1620	107	130	105	23	13	11	13
26	26	20	*23	*26	792	108	122	95	21	12	11	13
27	28	20	*24	*26	652	105	116	86	21	12	10	14
28	24	20	*25	*25	382	116	113	85	20	12	11	16
29	21	20	*27	*25		139	111	91	18	12	12	17
30	42	20	*28	*25		166	113	122	18	11	13	19
31	49	—	30	*25	—	177	—	122	—	11	12	—
Mean	20.8	23.4	26.4	26.0	240	188	127	108	38.4	14.3	10.3	12.9
Ac-Ft	1281	1390	1624	1599	13310	11590	7585	6662	2285	879	632	770

Maximum Discharge C.F.S. For Water Year 3,040 February 24, 1957; Year of Record *4,180 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 101400; 56-57 Water Year 49610

Station located 5 miles east of Geneaee. Drainage area is 120 square miles. Period of record Auguat 1954 to date.
Records computed by Department of Water Resources.
* Estimated

TABLE 80

INDIAN CREEK NEAR TAYLORSVILLE

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	*48	145	49	54	87	1320	*580	*560	608	96	35	34
2	*50	122	49	56	90	1310	*550	*590	543	93	32	34
3	*49	115	45	66	82	1070	*525	*570	496	91	31	34
4	*51	110	61	51	85	926	*540	*525	444	86	29	34
5	51	103	68	61	85	1870	*545	*530	414	86	31	34
6	52	95	58	49	85	1780	*560	*540	384	81	32	34
7	51	97	54	51	90	1480	*530	*560	351	81	32	32
8	57	96	25	61	96	1140	*500	*555	324	81	34	31
9	61	93	49	33	93	1350	*500	*540	314	78	34	29
10	71	93	71	*33	90	1020	*503	523	324	76	34	28
11	104	93	87	*41	96	853	*500	509	298	71	34	29
12	103	90	123	*76	99	835	*475	476	269	67	34	31
13	90	87	144	*155	133	766	*455	457	255	67	38	32
14	78	82	141	*150	163	693	*615	444	242	65	38	35
15	71	74	117	*110	191	766	*590	426	224	63	38	35
16	65	71	108	*90	213	758	*525	414	216	60	37	35
17	62	71	92	*72	245	615	*515	408	203	58	35	37
18	66	68	87	*66	265	572	*495	884	184	56	35	38
19	70	66	79	*72	290	536	*475	1790	172	54	34	38
20	70	51	76	*86	316	502	*460	1290	169	54	34	37
21	69	54	71	*84	306	557	*550	954	162	52	31	37
22	68	54	53	79	355	496	*615	826	154	51	29	37
23	80	54	59	90	911	457	*590	880	151	51	29	37
24	85	54	67	99	4560	457	*555	835	144	47	28	37
25	81	51	60	93	*7170	463	*525	725	138	47	28	35
26	107	51	56	85	3960	457	*500	693	128	45	28	32
27	130	51	52	79	2710	*456	*500	661	122	47	29	38
28	108	51	53	93	1780	*460	*500	646	116	43	29	43
29	95	51	61	87		*500	*535	669	110	43	31	51
30	179	49	66	90		*560	*550	725	104	42	32	58
31	212	—	59	90	—	*590	—	693	—	38	34	—
Mean	81.7	78.1	72.3	77.5	880	826	529	674	259	63.5	32.5	35.9
Ac-Ft	5026	4645	4443	4764	48880	50810	31450	41450	15400	3907	2001	2134

Maximum Discharge C.F.S. For Water Year; Year of Record *22,400 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 446500; 56-57 Water Year 214900

Station located 1.5 miles southeast of Taylorsville. Drainage area is 532 square miles. Period of record August 1954 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 81

LIGHTS CREEK NEAR TAYLORSVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	*10	18	10	8.0	*9.4	145	91	NR	NR	NR	6.2	5.0
2	*9.0	14	10	8.4	*9.4	152	86	NR	NR	NR	6.2	4.4
3	*8.0	14	10	8.4	*9.5	127	87	NR	NR	NR	6.2	4.4
4	8.0	13	11	*8.0	*9.6	140	96	NR	NR	NR	6.2	4.1
5	8.0	13	11	*8.4	*9.7	298	106	NR	NR	NR	6.5	3.9
6	7.6	14	10	*7.8	*9.8	277	107	NR	NR	NR	6.5	3.6
7	8.0	15	11	*8.0	*10	223	*90	*84	NR	NR	6.9	3.3
8	11	12	9.9	*8.5	10	186			NR	NR	6.5	3.3
9	11	7.6	10	*7.7	8.4	201			NR	NR	6.2	3.1
10	11	7.6	11	*7.7	7.6	145			NR	NR	6.2	3.1
11	19	8.4	13	*8.6	6.9	124			*42	NR	6.2	3.1
12	13	8.0	17	*11	7.3	127	N	N		*9.9	6.2	3.1
13	11	8.0	19	*23	15	107	O	O		*9.9	5.8	3.1
14	9.9	7.6	24	*22	31	96			N	*9.9	6.2	3.1
15	9.4	7.6	19	*18	34	96			O	*10	5.8	3.1
16	8.4	8.4	17	*15	*37	91				*10	5.4	3.3
17	8.0	8.4	15	*12	*35	83	R	R		*10	5.4	3.9
18	8.0	8.9	13	*10	*33	80	E	E	R	*9.4	5.0	4.4
19	7.6	8.9	12	*11	*31	79	C	C	E	8.9	5.0	4.1
20	7.6	8.9	12	*14	32	86	O	O	C	8.9	4.6	4.1
21	7.3	11	11	*13	32	90	R	R	O	8.9	4.6	3.9
22	6.9	11	8.9	*11	39	*80	D	D	R	8.9	4.6	3.6
23	8.9	11	9.9	*8.8	139	*79			D	8.9	4.4	3.3
24	8.9	11	11	*8.8	719	*78				7.6	4.4	3.3
25	8.9	11	10	*8.8	564	*78				7.6	4.4	3.3
26	16	11	8.9	*8.8	421	*78				7.6	4.4	3.6
27	15	10	8.0	*9.0	287	80				6.9	4.4	5.4
28	11	11	8.4	*9.0	186	96				6.9	4.6	8.9
29	9.9	10	9.4	*9.1		114				6.5	4.6	6.9
30	42	11	9.4	*9.2		104				6.9	5.0	11
31	26	—	8.9	*9.2	—	102				6.5	5.0	—
Mean	11.4	10.5	11.9	10.7	97.9	124					5.5	4.2
Ac-Ft	703	633	731	656	5440	7620					336	251

Maximum Discharge C.F.S. For Water Year — Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 75480; 56-57 Water Year

Station located 7 miles northeast of Taylorsville. Drainage area is 57.6 square miles. Period of record September 1954 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 82

WOLF CREEK AT GREENVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	*10	*33	9.0	10		156	44	27	29	8.6	4.8	4.5
2	*9.6	*28	9.0	*9.6		121	38	39	26	8.6	4.8	4.5
3	*9.6	*24	9.5	*9.4	*11	107	*38	37	24	8.1	4.8	4.5
4	*9.4	*22	10	*9.2		104	*41	32	23	8.1	4.8	4.5
5	9.5	*20	12	*9.0		146	*44	30	22	8.1	4.8	*4.5
6	9.5	*18	12	*9.0	11	160	*40	29	*20	7.6	4.8	*4.5
7	10	*16	12	*9.1	11	126	*35	27	19	7.6	4.8	4.5
8	13	*14	12	*9.2	11	111	34	28	18	7.6	4.8	4.8
9	13	12	12	9.5	12	135	34	27	18	7.1	4.8	4.5
10	13	11	13	9.5	12	122	35	26	19	6.6	4.8	4.5
11	15	10	*15	*9.6	13	102	34	24	18	6.6	4.5	4.5
12	*14	9.5	*17	*9.6	14	120	77	23	17	6.6	4.5	4.5
13	*13	9.0	*19	*9.6	*16	106	56	22	18	6.6	4.5	4.5
14	*12	8.6	*19	*9.7	*23	92	57	22	17	6.6	*4.8	4.5
15	*12	8.6	*19	*9.8	*33	98	*56	23	17	6.2	4.8	4.5
16	*11	8.1	*17	*9.9	*35	103	53	22	17	6.2	4.8	4.8
17	*11	8.6	*16	*9.9	*38	89	52	22	16	6.2	4.8	4.8
18	*12	8.1	*15		*39	80	52	52	15	5.7	4.5	5.2
19	*11	8.6	*14		*40	74	53	100	15	5.7	4.5	5.2
20	*10	8.6	*12		41	72	50	108	15	5.7	4.5	4.8
21	*11	8.6	*12		44	68	46	98	14	6.2	4.5	5.2
22	*12	9.0	*10	*10	50	62	44	82	14	5.7	4.2	5.2
23	*14	9.5	*9.5		188	56	*37	72	12	5.7	4.2	4.8
24	*13	9.0	*9.5		*1090	48	*32	60	12	5.7	4.2	4.5
25	*12	10	*9.5		*807	45	*28	52	11	5.7	4.2	4.8
26	*14	9.5	*8.6		*653	44	*26	47	9.5	5.7	4.2	4.8
27	*15	10	*8.6		*417	42	*26	41	9.0	5.7	4.2	3.1
28	*14	10	8.1		227	41	*26	*37	9.0	5.7	4.5	*10
29	*14	*9.5	8.6	*11		46	*27	*36	8.6	4.8	4.5	*12
30	*80	*9.0	8.6			47	27	36	8.6	4.8	4.5	*14
31	*50	—	9.0		—	47	—	32	—	5.2	4.5	—
Mean	15.4	12.7	12.1	9.9	139	99.4	41.4	42.4	16.4	6.5	4.6	5.6
Ac-Ft	945	756	745	608	7696	6494	2465	2604	977	399	281	330

Maximum Discharge C.F.S. For Water Year 1,460 February 24, 1957 — Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 58070; 56-57 Water Year 23200

Station located 100 feet above Highway 89 bridge. Period of record August 1954 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 83

SPANISH CREEK NEAR QUINCY

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct.	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept
1	22	61	25			•540	•190	147	1[illegible]	[illegible]3	[illegible]	[illegible]
2	22	47	24			•500	•170	2[illegible]5	11[illegible]	33	[illegible]	•[illegible]
3	22	40	24			•450	•160	173	11[illegible]	[illegible]3	[illegible]	•[illegible]
4	23	37	33	•20		•420	•150	1[illegible]	105	[illegible]	[illegible]	•[illegible]
5	26	35	33		•53	•660	•160	1[illegible]3	101	[illegible]	17	•[illegible]
6	23	34	32			•600	•1[illegible]	1[illegible]C	[illegible]4	3[illegible]	16	•1[illegible]
7	25	33	•29			•500	•150	144	85	33	16	•12
8	27	32	•27	13		•430	•140	147	[illegible]1	[illegible]1	15	•12
9	25	32	•29	•12	55	•540	•140	141	81	2[illegible]	1[illegible]	•[illegible]
10	28	31	30	•12	31	•420	•140	133	[illegible]5	[illegible]9	15	•[illegible]
11	37	32	37	•15	33	•[illegible]60	•140	121	76	27	13	•12
12	31	32	42	31	39	•500	•140	121	74	28	12	•[illegible]
13	28	30	44	150	60	•400	•135	121	70	28	12	•14
14	27	29	42	74	9[illegible]	•340	•[illegible]50	121	66	27	12	•14
15	27	28	35	52	105	•350	•260	114	•[illegible]2	26	12	•14
16	26	28	33	40	108	•360	•200	112	•[illegible]8	25	12	•14
17	26	28	31	37	103	•340	•[illegible]30	112	•54	24	1[illegible]	•[illegible]4
18	27	29	29		108	•280	•230	600	•[illegible]2	20	1[illegible]	•[illegible]4
19	26	28	28		103	•230	[illegible]08	606	•50	19	1[illegible]	•[illegible]
20	25	27	27		119	•200	[illegible]01	462	•48	19	1[illegible]	•15
21	26	28	27		150	•210	194	317	•45	20	12	•[illegible]5
22	27	28	24		204	•195	[illegible]04	263	•4[illegible]	20	12	•[illegible]
23	34	27	25	•33	1370	•170	190	228	•41	20	12	•[illegible]
24	32	27	26		4640	•160	176	190	•[illegible]6	20	12	•[illegible]
25	30	27	•28		•3400	•155	164	176	•3[illegible]	20	12	1[illegible]
26	40	27	•28		•2000	•150	156	164	•36	20	11	[illegible]2
27	43	25	•29		•1200	•145	144	156	•37	19	11	40
28	35	25	•29		•660	•150	141	153	•36	19	12	[illegible]
29	33	25	•29			•180	147	147	•35	19	9.7	[illegible]7
30	230	25	•30			•200	147	139	•34	18	9.0	29
31	110	—	•30		—	•200	—	128	—	17	[illegible]1	—
Mean	37.5	31.2	30.3	33.5	529	[illegible]	177	193	[illegible]1.8	24.3	[illegible].1	[illegible]
Ac-Ft	2307	1858	1862	2059	29400	[illegible]500	[illegible]0.40	11140	3917	1527	[illegible]07	[illegible]74

Maximum Discharge C.F.S. For	Water Year	6,740 February 24, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	[illegible]3400
	Year of Record			56-57 Water Year	87890

Station located 3 miles west of Quincy. Drainage area is 68 square miles. Period of record August 1954 to date. Records computed by Department of Water Resources.
• Estimated

TABLE 84

FEATHER RIVER NEAR OROVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	2730	4090	2320	2170	2400	14600	5860	6740	6340	2430	2060	1870
2	2760	3660	1710	1950	2610	12700	5450	8190	6040	2410	2050	1860
3	2790	3670	2440	2200	2340	11600	5350	7610	5420	2380	2020	1940
4	2800	3460	2310	2050	2130	12500	5420	7050	5160	2380	2030	2020
5	2850	3250	2460	1530	2020	19500	5470	6980	5010	2400	2030	1920
6	2850	3510	2440	1570	2060	19300	5530	6970	4880	2310	2010	1970
7	2820	3860	2160	1760	2140	15500	5330	6460	4710	2260	2020	2030
8	2800	3850	2140	2130	2670	13300	5460	6660	4590	2220	2070	2430
9	2880	3820	1740	2550	2620	14300	5110	7110	4520	2140	2140	2300
10	2860	3750	1900	2120	2130	12400	5150	5950	4630	2260	2130	1920
11	3060	3750	2200	2030	2430	10700	5120	5260	4840	2280	2100	2030
12	3210	3810	2320	3050	2520	12300	5030	5060	4590	2110	2000	2370
13	3010	3790	2370	5290	2910	10900	4950	4920	4240	2090	1960	2340
14	2870	3730	2370	3980	3270	9480	8800	5080	3930	2080	1940	2610
15	2780	3590	2350	3340	3450	9540	8150	4860	3790	2150	1940	2700
16	2790	3380	2290	3050	3780	9940	6140	4200	3250	2290	1960	2720
17	2860	3180	2310	2920	2970	8910	6980	4330	3590	2190	1970	2780
18	2920	3090	2370	2850	4000	7620	7390	21300	3540	2120	1920	2710
19	2940	3090	2700	2810	4180	6860	6380	24600	3220	2150	1920	2750
20	2920	3060	2670	3630	4540	6600	5850	17800	2850	2270	1920	2660
21	2910	3040	2370	3130	5090	6600	5700	14600	3140	2260	1950	2620
22	2880	3030	2250	2860	6020	6350	6230	12400	3030	2260	1940	2590
23	2970	3000	1960	2770	14900	5810	6480	10500	2750	2290	1890	2460
24	3060	2820	2020	2570	59000	5530	5830	9650	2890	2290	1860	2350
25	3020	2350	1910	2610	56900	5390	5720	8940	2910	2230	1850	2210
26	3150	2180	2090	2630	42100	5270	5280	7860	2690	2190	1900	1970
27	3510	2130	1980	2330	31900	5190	5260	7710	2550	2160	1900	3190
28	3320	2260	1820	2290	19700	5240	5300	7230	2550	2080	1910	3150
29	3150	2320	2010	2340		5510	5420	6810	2520	2070	1850	2470
30	6140	2340	1960	2330		6610	6270	6560	2460	2070	1920	2590
31	6070	—	2250	2410	—	6510	—	6400	—	2070	1900	—
Mean	3151	3230	2200	2621	10460	376[illegible]	[illegible]880	8574	3[illegible]	[illegible]	1974	[illegible]79
Ac-Ft	193700	192200	135300	[illegible]61200	580700	600[illegible]00	349900	[illegible]72[illegible]	[illegible]31300	3[illegible]60	[illegible]30[illegible]	41600

Maximum Discharge C.F.S. For	Water Year	83,100 February 25, [illegible]957	Total Discharge Ac.-Ft. For	56-Calendar Year	[illegible]000000
	Year of Record	230,000 March 19, 1907		56-57 Water Year	[illegible]000

Station loc ted 75 feet above Fe ther River Highway bridge, 4 miles nort east of Oroville, Mile 71.0 above mout . Drain e rea is 3,611 square miles. Period of record J nuary 1902 to d te. Records computed by U. S. Geological Survey.

TABLE 85

FEATHER RIVER NEAR GRIDLEY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	1980	3910	2020	1830	2230	19900	6020	4320	4520	354	291	365
2	1950	3370	1720	1730	2310	16300	5350	5220	4460	317	258	350
3	1920	3340	1940	1860	2160	14200	5180	5190	3810	302	244	419
4	1940	3250	1940	1920	1990	13900	5180	4660	3550	360	245	578
5	1960	3040	1970	1730	1960	19200	5160	4520	3330	453	250	540
6	2010	3080	2040	1430	2000	21900	5150	4520	3220	406	265	515
7	2030	3440	1850	1690	2020	19200	5060	4200	3020	314	257	660
8	2030	3520	1810	1870	2240	16300	5110	4010	2850	269	302	980
9	2090	3490	1610	2260	2390	15900	4750	4610	2730	186	366	1100
10	2100	3470	1680	2020	2190	15100	4660	4050	2710	148	407	709
11	2200	3440	1820	1920	2130	13100	4520	3290	2910	337	369	771
12	2370	3490	1900	2590	2220	13400	4350	3100	2760	160	322	1040
13	2230	3530	1980	4010	2500	12700	4320	3020	2510	135	282	1230
14	2150	3530	1940	3840	2810	10800	6430	3070	2180	122	278	1420
15	2060	3400	1980	3050	3070	10100	7420	3200	1950	112	265	1540
16	2100	3190	1920	2810	3430	10900	5560	2820	1780	299	238	1620
17	2050	3030	1920	2660	3100	9730	5430	2730	1580	285	281	1740
18	2080	2890	1910	2560	3520	8700	6210	12100	1660	187	297	1740
19	2120	2830	2140	2580	3900	7590	5520	26800	1580	149	269	1830
20	2140	2790	2180	3130	4260	7720	4880	18300	1080	254	260	1870
21	2140	2770	1980	2950	4840	7090	4700	14500	952	308	290	1820
22	2230	2740	1920	2680	5790	7030	4840	11600	1210	279	301	1800
23	2180	2690	1770	2570	9510	6390	5450	9330	962	336	292	1770
24	2410	2520	1720	2370	*39200	6010	4560	8220	838	326	269	1680
25	2370	2210	1720	2390	61700	5830	4630	7430	1010	337	228	1570
26	2400	2080	1760	2380	46100	5640	3920	6490	760	360	285	1290
27	2680	1990	1720	2180	40700	5510	3640	6160	468	366	332	1610
28	2640	2040	1590	2110	26800	5470	3440	5640	494	298	417	2580
29	2520	2060	1710	2150		5610	3410	5320	457	246	319	1800
30	3980	2060	1740	2140		6480	3660	4850	381	246	346	1810
31	5920	—	1880	2180	—	6420	—	4770	—	290	375	—
Mean	2354	3973	1864	2374	10250	11100	4950	6711	2057	276	297	1292
Ac-Ft	144800	176900	114600	146000	569400	682600	294600	412600	122400	16940	18250	76850

Maximum Discharge C.F.S. For	Water Year	68,700 February 25, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	5159000	
	Year of Record			56-57 Water Year	2776000	

St tion loc ted t Gridley Bridge, Mile 49.7 above mouth. Period of record January 1944 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 86

SOUTH HONCUT CREEK NEAR BANGOR

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	0	7.5	1.8	5.8	3.0	46	17	7.5	8.8	.1		0
2	0	5.8	1.8	5.8	3.0	33	13	13.0	5.6	.1		0
3	0	4.4	2.1	5.8	3.0	57	11	9.8	5.0	.1		0
4	0	3.5	2.5	4.8	2.9	250	9.5	7.8	6.1	0		0
5	.1	3.0	6.8	4.2	2.8	273	8.5	6.5	4.6	0		0
6	.1	2.6	5.0	2.8	2.8	107	8.0	5.6	3.5	0		0
7	.1	2.3	3.9	2.3	3.0	62	7.5	5.4	3.4	0		0
8	0	2.4	3.0	2.1	5.4	47	7.0	5.8	3.9	0		0
9	.1	2.3	2.5	2.1	12	55	6.5	11.0	3.5	0		0
10	.2	1.4	2.3	2.1	8.3	36	6.1	14.0	3.7	0		0
11	.2	1.0	2.2	2.3	6.5	29	6.1	10.0	3.4	0		0
12	.2	.8	2.6	5.6	5.6	48	5.8	9.8	2.9	0	N	0
13	.1	.9	4.4	68	5.0	33	6.1	9.5	2.6	0		0
14	.1	1.2	4.4	34	4.6	27	65	10.0	2.4	0	O	0
15	.1	1.1	4.4	18	4.2	53	18	7.5	2.4	0		0
16	.1	1.0	4.4	12	3.9	49	15	5.4	2.2	0	F	0
17	.1	1.0	4.4	9.2	3.7	35	45	5.2	1.8	0	L	0
18	.1	1.4	4.4	8.0	3.4	29	62	403	1.3	0	O	0
19	.1	1.5	4.4	8.3	3.4	24	44	136	1.1	0	W	0
20	.1	1.5	4.4	125	3.5	20	33	57	1.0	0		0
21	.1	1.6	4.4	22	85	18	28	37	.8	0		0
22	.1	1.5	4.2	12	84	15	26	26	.7	0		0
23	.1	1.4	4.4	8.8	378	14	22	20	.6	0		0
24	.1	1.4	5.0	7.2	860	13	20	15	.5	0		0
25	.1	1.6	5.2	5.8	202	12	18	14	.4	0		0
26	.5	1.8	5.6	5.0	282	11	16	13	.3	0		0
27	.6	2.3	5.8	4.2	118	9.5	15	12	.3	0		0
28	.8	2.3	5.6	3.7	61	8.5	12	10	.2	0		0
29	.9	1.9	5.6	3.4		11	10	8.8	.2	0		0
30	27	1.9	5.8	3.2		15	8.3	11	.2	0		.3
31	22	—	5.6	3.0	—	18	—	15	—	0		—
Mean	1.75	2.14	4.16	13.1	77.1	47.0	19.0	29.7	2.45	0.01	0	0.01
Ac-Ft	107	128	256	806	4280	2890	1130	1830	146	0.6	0	0.6

Maximum Discharge C.F.S. For	Water Year	1,840 February 24, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	31520	
	Year of Record	6,340 December 23, 1955		56-57 Water Year	11570	

Station located 2.3 miles southeast of Bangor, 16 miles above mouth. Drainage area is 30.5 square miles. South Honcut Creek is an east-side tributary, via Honcut Creek, to the Feather River at Mile 43.7L above mouth. Period of record October 1950 to date. (Prior records available at a site 8 miles downstream.) Records computed by U. S. Geological Survey.

TABLE 87

FEATHER RIVER AT YUBA CITY

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	2320	5080	2450	2070	2500	[illegible]	[illegible]	4610	*[illegible]	607	487	591
2	2270	3930	2370	2060	2540	18100	545[illegible]	53[illegible]	*[illegible]	553	467	617
3	2220	3700	2140	2010	2550	14900	5200	646[illegible]	*[illegible]	512	457	632
4	2270	3610	2470	2120	2340	14400	5190	552	*[illegible]	523	470	693
5	2290	3410	2490	2110	2270	22400	5240	5270	*38[illegible]0	560	495	813
6	2320	3280	2500	1690	2220	*26000	5260	5600	*3[illegible]	565	494	767
7	2350	3580	2440	1800	2350	*24000	5220	5620	*34[illegible]	518	499	814
8	2400	3750	2320	2010	2430	19500	5220	5090	*32[illegible]	478	478	978
9	2450	3760	2260	2280	2770	16700	4940	55[illegible]0	*3100	435	508	1250
10	2490	3720	2040	2340	2660	16300	4760	5300	*3000	407	528	1200
11	2540	3690	2150	2180	2340	12800	4700	4250	3130	412	613	995
12	2720	3700	2300	2380	2540	12200	4570	3710	2920	485	585	1070
13	2690	3740	2380	3550	2650	13500	4420	3500	2600	427	511	1500
14	2540	3700	2370	5000	2900	*12000	5270	3530	2360	399	479	1540
15	2440	3670	2380	3600	3210	*11000	9200	3570	2100	395	487	1760
16	2450	3480	2340	3150	3430	11600	6930	3120	1980	404	500	1880
17	2430	3330	2320	2910	3390	10200	5380	2820	1620	505	484	2000
18	2430	3160	2320	2830	3100	*9500	7420	6400	1610	460	512	2110
19	2460	3090	2410	2790	3740	*8400	7040	*35000	1540	408	515	2110
20	2500	3070	2540	3520	3960	*8500	6000	*27000	1330	412	498	2150
21	2500	3040	2420	3780	4490	*7800	5510	*20000	1090	493	472	2150
22	2530	3040	2290	3160	5700	*7800	5320	*15000	1100	533	480	2080
23	2620	3040	2210	2890	8640	*7200	5920	*11000	1110	512	478	2060
24	2650	2940	2040	2720	28900	*6800	5290	*9500	978	517	461	2010
25	2810	2770	2050	2660	68000	*6400	5050	*8400	971	532	450	1840
26	2760	2520	2020	2630	59300	*6200	4440	*7400	958	521	434	1650
27	2990	2390	2050	2510	54300	*6000	3880	*6800	795	530	471	1620
28	3140	2400	1980	2370	40000	*6000	3720	*6400	674	540	566	2910
29	2970	2450	1890	2410		*6200	3600	*5800	669	540	614	2390
30	3130	2470	2040	2420		*6600	3760	*5400	646	513	552	2120
31	6610	—	2010	2420	—	*6800	—	*5400	—	448	571	—
Mean	2687	3317	2258	2657	11620	12340	5357	8013	2309	489	504	1543
Ac-Ft	165200	197400	138800	163400	645100	758500	318800	492700	137400	30040	30990	91830

Maximum Discharge C.F.S. For	Water Year	[illegible],900 Febru ry 25, 1957	Total Discharge Ac.-Ft. For	S6-Calendar Year	5551000
	Year of Record			56-57 Water Year	3170000

St tion located at Yuba City-Marysville "5th Street" hi hway bridge (Sacr mento Northern Railroad bridge), M'le 28.OR bove mouth. B ckw ter from the Yuba River at times ffects the stage-discharge relationship of this stat'on. Period of record July 1944 to October 1945 (low-water periods only); Janu ry 1946 to d te. Records computed by Department of Water Resources.

* Estim ted

TABLE 88

YUBA RIVER AT ENGLEBRIGHT DAM

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	325	570	602	590	611	5960	2800	3020	6560	1000	690	470
2	325	570	605	590	620	5070	2470	3730	6830	945	683	470
3	325	570	610	590	620	4800	2330	3660	6040	890	680	470
4	325	580	615	586	620	5790	2350	3110	5390	850	670	470
5	436	580	615	580	620	13700	2370	3610	5570	810	670	480
6	625	590	620	550	620	13300	2450	4420	5210	780	670	490
7	620	590	620	540	620	9270	2400	4340	4360	731	665	490
8	620	605	620	540	635	9010	2310	4140	3920	716	665	490
9	620	618	620	540	602	7040	2270	3820	3700	712	670	485
10	620	620	620	540	635	5840	2300	3260	3280	710	670	485
11	620	610	618	536	635	4920	2330	3280	2720	710	630	485
12	616	600	615	530	635	6080	2250	2680	2420	712	670	485
13	625	600	610	515	645	5740	2140	2640	2340	580	670	486
14	620	600	613	560	648	4740	3560	2720	2340	670	665	485
15	620	605	582	560	656	5120	3800	2540	2120	710	665	472
16	610	605	620	565	670	5510	2940	2440	1940	700	663	500
17	610	610	615	565	670	4500	3180	2920	1720	680	660	505
18	610	568	615	566	670	3900	3860	17000	1570	680	650	515
19	605	610	615	570	675	3540	3430	27400	1560	680	650	510
20	600	600	615	575	680	3240	3120	14200	1560	680	593	510
21	595	600	617	595	660	3360	2900	9370	1540	680	495	510
22	590	600	620	590	660	3030	2820	8310	1490	680	475	508
23	590	597	615	585	5700	2900	2800	7290	1420	680	464	515
24	590	615	615	585	22900	2640	2740	6440	1350	680	475	525
25	585	620	615	590	26200	2500	2640	5860	1310	680	470	530
26	578	620	610	610	14800	2430	2520	5900	1260	685	555	474
27	565	620	605	615	12700	2340	2500	6400	1200	641	630	418
28	555	620	600	610	7940	2360	2540	7330	1170	649	570	435
29	437	620	600	605		2590	2720	7100	1140	690	460	435
30	322	618	595	600		2980	2900	6490	1080	685	464	440
31	560	—	595	600	—	2750	—	6260	—	685	470	—
Mean	547	601	611	573	3727	5063	2725	6186	2804	722	606	485
Ac-Ft	33610	35760	37590	35250	207007	311300	162100	380400	166800	44390	37240	28850

Maximum Discharge C.F.S. For	Water Year	48,600 May 15, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	2382000
	Year of Record	148,000 December 24, 1955		56-57 Water Year	1480000

St tion located above spillway of Englebright Dam, M'le 2[illegible] L[illegible]bove U. S. Rig'way 99E bridge. Dr'nage area is [illegible],104 square miles. For total flow of Yub River ne r Sm rtville combine with flows of Deer Creek near Smartvill e. Period of record October 1941 to date. Records computed by U. S. Geologic l Survey.

TABLE 89

DEER CREEK NEAR NEVADA CITY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1										19	15	25
2										19	14	26
3										18	14	24
4										18	19	24
5										17	20	24
6										18	21	23
7										18	21	21
8										19	21	21
9										19	19	20
10										19	20	19
11										18	20	19
12										18	19	18
13										18	18	17
14										18	18	17
15										17	18	17
16										17	18	18
17										16	18	21
18										17	17	20
19									*14	17	19	19
20									17	20	21	18
21									18	20	20	18
22									18	20	21	17
23									14	20	21	16
24									13	19	20	15
25									11	18	20	15
26									11	18	20	15
27									18	17	20	21
28									19	20	22	10
29									18	29	27	8.1
30									19	15	26	7.7
31		—			—		—		—	15	26	—
Mean										18.4	19.8	18.6
Ac-Ft										1133	1216	1098

Maximum Discharge C.F.S. For Water Year
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year
56-57 Water Year

Station located 1.0 mile northeast of Nevada City. Drainage area is approximately 25 square miles. Period of record June 19, 1957 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 90

DEER CREEK NEAR SMARTVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	13	89	11	20	22	125	186	121	140	8.8	5.2	6.8
2	13	43	9.3	19	33	96	169	230	134	8.2	5.4	6.6
3	13	29	8.9	19	25	139	169	159	124	8.2	5.5	6.6
4	14	22	14	17	23	494	166	128	113	8.0	5.5	6.6
5	13	20	80	17	22	803	155	118	107	8.2	5.8	6.2
6	14	19	44	20	20	305	136	114	95	7.7	5.8	6.4
7	14	18	29	21	22	179	51	117	82	8.8	6.0	6.6
8	17	17	22	21	245	216	38	127	69	9.1	6.2	6.2
9	12	16	20	19	101	281	27	135	66	8.0	6.0	6.6
10	12	15	20	13	57	219	18	148	68	8.5	5.6	6.2
11	39	13	20	13	60	204	24	132	64	8.0	5.6	5.6
12	27	13	20	44	45	348	32	127	60	8.5	6.0	4.5
13	17	13	26	450	42	270	77	126	56	8.2	6.0	4.5
14	15	13	30	114	38	217	262	142	53	7.4	6.2	4.5
15	13	13	26	56	34	465	166	131	50	7.7	6.2	5.5
16	18	13	25	41	32	391	144	118	46	6.6	6.0	4.9
17	21	12	24	32	30	249	277	130	42	6.2	6.0	4.9
18	17	12	23	26	29	202	382	1810	37	6.0	6.2	5.2
19	20	10	20	24	26	173	211	1300	22	6.0	5.8	5.2
20	15	9.3	19	570	26	151	179	758	14	6.2	5.8	4.9
21	12	9.7	21	110	277	142	168	565	13	6.6	6.4	4.6
22	11	9.7	18	56	247	123	149	435	12	6.6	6.4	4.0
23	30	9.3	15	44	926	111	147	376	13	6.2	6.8	4.1
24	34	9.7	15	40	1630	102	143	303	12	6.0	6.6	4.1
25	11	8.9	15	36	539	102	138	259	11	5.5	6.6	4.4
26	12	8.2	15	32	610	95	138	241	8.8	5.5	6.4	4.0
27	21	8.2	16	28	256	83	132	220	9.1	5.4	5.8	22
28	12	8.9	17	25	147	85	116	200	10	5.4	5.6	25
29	12	8.6	17	24		114	111	180	9.1	6.4	5.6	16
30	302	8.9	20	23		159	118	174	9.1	6.2	6.0	16
31	116	—	21	22	—	172	—	158	—	5.5	6.4	—
Mean	29.4	16.6	22.0	64.4	199	220	141	299	51.6	7.08	5.98	7.29
Ac-Ft	1800	991	1350	3960	11040	13520	8390	18410	3070	436	368	434

Maximum Discharge C.F.S. For Water Year 4,410 May 18, 1957
Year of Record 11,300 Dec. 23, 1955 (a)

Total Discharge Ac.-Ft. For 56-Calendar Year 120200
56-57 Water Year 63770

Station located 1.0 mile above mouth. Drainage area is 84.6 square miles. Deer Creek enters the Yuba River 1.0 mile below Englebright Dam. For total flow of Yuba River near Smartville, combine with flows of Yuba River at Englebright Dam. Period of record June 1935 to date. Records computed by U. S. Geological Survey.
(a) Discharge of 11,300 c.f.s. was also recorded March 9, 1955.

TABLE 91

DRY CREEK AT VIRGINIA [illegible]

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	[illegible]	11	14	11	18	15	[illegible]	[illegible]	41	[illegible]	[illegible]	[illegible]
2	[illegible]	10	14	11	19	11[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	4.9	10	13	12	19	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	15	15	12	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	4.7	15	15	12	11	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]
6	[illegible]	15	14	11	14	413	[illegible]	28	30	[illegible]	[illegible]	[illegible]
7	4.5	15	14	12	16	215	9.2	[illegible]	30	1	[illegible]	[illegible]
8	4.5	15	14	12	92	1[illegible]0	7.7	[illegible]	[illegible]	15	[illegible]	[illegible]
9	[illegible]	15	13	11	[illegible]3	[illegible]0[illegible]	[illegible]9	[illegible]	[illegible]	15	[illegible]	[illegible]
10	4.4	15	13	11	42	[illegible]0	64	[illegible]3	[illegible]	15	[illegible]	[illegible]
11	[illegible]	15	13	12	32	109	29	[illegible]0	2[illegible]	14	[illegible]	[illegible]
12	[illegible]	14	13	18	28	208	[illegible].6	[illegible]5	[illegible]5	11	[illegible]	[illegible]
13	[illegible]	15	13	[illegible]1	30	145	[illegible].2	33	23	11	[illegible]	[illegible]
14	[illegible]	14	13	3[illegible]	[illegible]9	115	212	40	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	15	12	33	[illegible]	[illegible]0	83	40	22	[illegible]	[illegible]	[illegible]
16	[illegible]	14	12	41	25	277	[illegible]0	31	21	[illegible]	[illegible]	[illegible]
17	[illegible]	14	12	31	23	156	194	[illegible]8	19	[illegible].9	[illegible]	[illegible]
18	[illegible]	14	12	2[illegible]	22	118	301	187[illegible]	1[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	14	12	24	22	102	152	[illegible]43	1[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	14	12	382	[illegible]	[illegible]5	10[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]
21	[illegible]	14	11	12[illegible]	2[illegible]	[illegible]7	85	[illegible]2[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	14	11	54	3[illegible]	[illegible]8	[illegible]2	145	1[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	14	11	38	1120	[illegible]2	[illegible]9	112	11	[illegible]	[illegible]	[illegible]
24	[illegible]	14	11	32	2210	53	[illegible]4	9	1[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	14	11	29	[illegible]2	[illegible]7	4[illegible]	[illegible]9	[illegible].7	[illegible]	[illegible]	[illegible]
26	[illegible]	1[illegible]	11	2[illegible]	[illegible]3	[illegible]2	[illegible]1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	14	11	23	[illegible]7	41	[illegible]2	[illegible]	[illegible].9	[illegible]	[illegible]	[illegible]
28	[illegible]	1[illegible]	11	21	194	39	35	[illegible]7	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	14	11	20		[illegible]4	32	[illegible]0	[illegible]	[illegible]	[illegible]	[illegible]
30	24	1[illegible]	11	19		[illegible]5	[illegible]1	[illegible].9	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	—	11	19	—	[illegible]1	—	[illegible]8	—	[illegible]	[illegible]	—
Mean	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]7.4	[illegible]42	[illegible]4.5	[illegible]	[illegible]	[illegible]
Ac-Ft	325	[illegible]31	[illegible]02	[illegible]390	[illegible]2940	[illegible]6780	[illegible]4010	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Maximum Discharge C.F.S. For Water Year [illegible] May [illegible], 1957
Year of Record [illegible] December 22, [illegible]

Total Discharge Ac.-Ft For 56-Calendar Year [illegible]
56-57 Water Year [illegible]

Station located 0.4 miles south of Virginia Ranch, 5.6 miles east of Lom[illegible] Ridge. Drainage [illegible] square miles. Dry Creek enters the Yuba River at Mile 11.0R above mouth. Period of record October 194[illegible] to date. Records compute[illegible] by U. S. Ge[illegible]ogical Survey.

TABLE 92

YUBA RIVER AT MARYSVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	220	560	524	560	720	5600	3280	2660	6050	660	267	210
2	220	554	524	548	746	5400	3000	3010	6320	580	274	210
3	220	542	518	536	746	7000	2790	3390	5780	500	270	219
4	220	566	542	536	740	10000	2720	2850	5310	460	270	225
5	220	566	590	518	734	16000	2710	2920	5230	400	267	225
6	260	584	614	518	734	14000	2710	3450	5020	360	267	228
7	430	596	584	584	758	11000	2660	3590	4700	330	267	243
8	430	596	572	668	904	10000	2510	3500	4020	310	280	270
9	430	590	560	662	976	8650	2380	3300	3710	300	280	270
10	430	584	548	650	832	7910	2420	2950	3470	290	274	277
11	430	572	542	668	800	6300	2410	2940	2800	290	270	252
12	430	566	560	698	764	6570	2350	2520	2390	290	258	228
13	430	548	566	1110	782	7090	2270	2410	2220	290	258	240
14	425	536	578	1030	782	5800	3040	2440	2170	240	252	240
15	425	542	542	794	782	5480	4140	2410	2210	270	277	258
16	420	542	548	758	770	6600	3150	2190	2010	280	264	261
17	415	536	560	726	776	5430	3190	2390	1760	290	270	280
18	405	524	560	716	776	4710	4150	7320	1540	280	270	294
19	380	518	560	716	770	4270	3[illegible]8[illegible]	30000	1430	280	270	302
20	374	536	560	1610	776	3960	3280	2290[illegible]	1400	277	274	312
21	362	542	566	1190	1500	[illegible]	3[illegible]10	1[illegible]800	1330	274	237	329
22	368	536	560	904	1[illegible]00	[illegible]50	2890	1020[illegible]	1230	274	195	319
23	374	518	554	78[illegible]	[illegible]400	[illegible]42[illegible]	28[illegible]	[illegible]300	1190	267	189	312
24	428	506	554	766	28[illegible]0	3170	270	710	1110	270	168	320
25	416	506	554	750	27000	[illegible]01	[illegible]	[illegible]290	[illegible]020	270	168	335
26	[illegible]30	506	554	770	1500[illegible]	[illegible]920	[illegible]520	[illegible]150	9[illegible]	264	178	325
27	440	512	554	760	11000	[illegible]820	[illegible]4[illegible]	[illegible]080	95[illegible]	270	231	275
28	428	512	554	746	8000	[illegible]75[illegible]	[illegible]41	[illegible]740	90[illegible]	267	274	280
29	410	518	548	730		[illegible]830	[illegible]34[illegible]	[illegible]0[illegible]	820	277	[illegible]34	270
30	360	524	548	720		[illegible]640	[illegible]2[illegible]	[illegible]1[illegible]	750	[illegible]84	[illegible]04	[illegible]2[illegible]
31	740	—	548	720	—	[illegible]1[illegible]	—	[illegible]960	—	[illegible]70	135	—
Mean	[illegible]86	545	556	[illegible]1[illegible]	[illegible]407[illegible]	[illegible]3[illegible]1	[illegible]2847	[illegible]15[illegible]	[illegible]1[illegible]	[illegible]3[illegible]	[illegible]47	[illegible]3[illegible]
Ac-Ft	[illegible]3730	32410	[illegible]2410	[illegible]480	[illegible]25100	[illegible]7[illegible]	[illegible]1[illegible]7[illegible]	[illegible]84[illegible]	19[illegible]	19[illegible]	[illegible]	[illegible]

Maximum Discharge C.F.S. For Water Year [illegible] May 19, 1957
Year of Record [illegible],000 December 2[illegible], 19[illegible]

Total Discharge Ac.-Ft For 56-Calendar Year [illegible]
56-57 Water Year [illegible]97[illegible]

Station located at Simpson Lane Bridge, Mile 0.9 above U. S. Highway 99E bridge. Backwater from the Feather River at times affects the stage-discharge relationship of this station. Period of record July 1939 to December 1944 (low-water periods only); April 1945 to December 1952; December 1955 to date. Records computed by U. S. Geological Survey.

TABLE 93

FEATHER RIVER BELOW SHANGHAI BEND

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	2930	6740	3260		3300	31700	9980	7450	11200		830	654
2	2870	5270	3170		3360	23600	8900	8440	11500		830	698
3	2820	4880	2820		3380	20100	8380	10200	10500		790	721
4	2870	4780	3320		3140	19800	8260	8810	9280	*1550	790	798
5	2890	4530	3330	*2720	3020	28100	8220	8480	8810		822	961
6	3070	4330	3370		2980	36000	8220	9170	8570		822	894
7	3200	4600	3320		3080	32600	8180	9300	7860		782	952
8	3290	4840	3120		3210	26600	8000	8570	6940		782	1160
9	3330	4840	3030		3710	23300	7620	8980	6590	*800	854	1490
10	3400	4780	2760	*3170	3380	23000	7450	8570	6250		952	1400
11	3440	4710	2880	3070	3100	19400	7410	7320	5960		986	1170
12	3620	4720	3080	3210	3190	18500	7260	6450	5540		969	1240
13	3640	4750	3190	4590	3370	20300	7030	6120	5120		854	1720
14	3450	4710	*3210	6250	3670	17300	8200	6120	4810		806	1800
15	3330	4620		4900	4000	15800	13400	6190	4410		798	2020
16	3330	4460		4270	4240	17900	10600	5590	4200		806	2130
17	3320	4280		3980	4300	16200	9360	5340	3620		806	2260
18	3290	4080		3860	3900	14300	11300	10300	3490		838	2410
19	3320	3960		3790	4640	12400	10900	44800	3340	*800	830	2420
20	3370	3970		4750	4880	11900	9550	40100	3050		782	2470
21	3370	3970		5160	5480	11000	8790	30500	2670		706	2500
22	3380	3960	*2990	4330	7080	11000	8480	24100	2610		661	2420
23	3530	3960		3940	10300	10200	9060	19900	2610		625	2430
24	3540	3860		3740	30200	9510	8480	16800	*2300		589	2360
25	3750	3680		3610	*73000	9080	7980	14900			534	*2180
26	3690	3320		3570	*65600	8830	7290	14000			514	*1980
27	3900	3170		3440	*58600	8510	6570	13000			610	*1900
28	4130	3150		3280	43400	8370	6380	13500	*1550		798	3250
29	3960	3240		3240		8570	6280	13300			790	2910
30	4010	3280		3280		9730	6500	11900			632	2520
31	7910	—		3240	—	9940	—	11600		*814	625	—
Mean	3547	4315	3055	3585	13050	17210	8468	13220	5018	994	768	1794
Ac-Ft	218100	256700	187800	220500	725000	1058000	503900	812800	298600	61120	47230	106700

Maximum Discharge C.F.S. For Water Year *83,200 February 25, 1957
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 8280000
56-57 Water Year 4496000

Station located at Mile 23.05 above mouth. Station is rated above 30,000 c.f.s. by means of simultaneous measurements of Yuba River at Marysville and Feather River at Yuba City taking into consideration appropriate time lag. Severe silting conditions and shifting control necessitated the estimating of much of the summer flow. Period of record June 1944 to October 1945 (low water periods only); January 1946 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 94

WOLF CREEK NEAR WOLF

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1									46	12	6.2	9.4
2									46	11	6.2	9.8
3									42	9.8	6.9	9.1
4									38	9.1	5.6	8.3
5									31	8.7	6.9	8.3
6									29	8.3	8.3	8.7
7									29	9.4	7.2	9.1
8									29	*9.4	7.9	7.2
9									30	8.3	6.9	7.9
10									41	7.6	8.7	7.9
11									37	7.2	6.6	8.7
12									*34	5.9	5.9	10
13									*31	5.6	5.9	11
14									*28	6.2	6.2	11
15									26	6.2	6.2	9.1
16									24	6.2	6.2	12
17									23	6.9	5.3	13
18									21	5.9	4.5	16
19									20	6.2	4.5	13
20									20	6.9	5.1	12
21									25	6.6	5.1	11
22									*25	6.9	4.8	12
23									*22	7.9	4.3	11
24									20	6.9	4.3	9.1
25									16	7.2	4.8	9.8
26									13	6.6	6.2	13
27									12	6.6	6.2	44
28								*69	9.8	6.2	7.6	50
29								67	9.8	7.6	6.9	32
30								60	*10	*6.2	8.7	33
31		—			—		—	50	—	5.6	10	—
Mean									26.3	7.5	6.3	14.2
Ac-Ft									1562	458	389	846

Maximum Discharge C.F.S. For Water Year
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year
56-57 Water Year

Station located 2 miles southeast of Wolf, 0.8 mile west of State Highway 49. Period of record May 28, 1957 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 95

BEAR RIVER NEAR WHEATLAND

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	14	325	57	257	75	842	888	178	39	5.6	3.9	3.9
2	12	257	42	137	82	636	830	277	12	7.5	3.9	2.2
3	9.5	210	39	222	84	537	758	445	133	7.5	4.6	2.2
4	9.5	166	46	134	75	1370	770	321	218	15	3.1	2.3
5	14	154	118	73	71	3940	704	242	19	13	2.9	2.6
6	19	151	242	61	69	3340	652	184	175	4.8	4.1	2.9
7	27	142	188	63	71	1860	620	157	172	5.4	3.7	2.3
8	31	123	110	67	235	1260	559	192	169	4.6	3.9	3.5
9	31	134	93	73	261	1550	537	228	166	7.4	3.5	2.4
10	31	163	93	69	172	1180	548	289	157	7.2	2.8	3.1
11	49	148	174	69	178	895	505	249	136	4.8	2.8	4.4
12	145	108	160	96	166	1060	374	228	125	4.8	2.8	4.4
13	145	73	98	476	132	1120	348	217	112	5.6	2.2	4.4
14	123	93	78	578	100	923	348	224	58	4.6	1.8	4.4
15	91	108	78	245	86	1170	356	245	34	4.8	2.0	4.1
16	59	116	78	145	80	1710	195	192	19	3.9	2.2	4.6
17	41	116	75	118	82	1130	59	178	15	4.8	2.3	5.1
18	34	113	73	93	78	1080	533	2670	14	4.1	3.7	5.6
19	34	100	73	84	73	1130	752	6280	11	4.1	2.3	3.5
20	39	91	69	522	18	1040	564	3020	6.9	4.6	2.4	3.3
21	30	98	69	481	27	986	465	2280	5.4	5.6	2.4	2.8
22	24	96	93	206	221	930	402	1520	4.6	5.6	2.4	4.4
23	27	93	71	129	1470	895	348	1160	4.6	5.4	3.7	2.9
24	65	67	63	106	3600	860	281	924	4.8	3.7	3.7	2.4
25	44	82	65	103	5220	842	242	735	4.6	3.3	4.4	3.7
26	39	75	61	100	2480	830	203	615	4.6	3.5	5.9	5.4
27	53	78	61	91	1820	830	172	561	7.5	3.9	3.9	7.5
28	59	78	61	84	1010	788	172	511	5.4	5.4	3.9	6.2
29	48	71	63	80		734	140	445	5.4	5.6	3.9	6.2
30	300	63	61	78		788	148	420	7.5	4.4	3.9	6.2
31	716	—	168	75	—	752	—	246	—	3.9	3.9	—
Mean	76.2	123	90.9	165	644	1194	449	820	67.4	5.63	3.32	3.96
Ac-Ft	4690	7320	5590	10150	35770	73400	26720	50450	4010	346	204	236

Maximum Discharge C.F.S. For Water Year 11,200 May 18, 1957; Year of Record 33,000 December 22, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 380700; 56-57 Water Year 218900

Station located at U. S. Highway 99E bridge, Mile 11.3 above mouth. Drainage area is 295 square miles. Bear River enters the Feather River at Mile 12.0L above mouth, 2.8 miles above Nicolaus gaging station. Period of record October 1928 to date. Records computed by U. S. Geological Survey.

TABLE 96

DRY CREEK NEAR WHEATLAND

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	0	35		0	4.5	102	50	17	0	0	0	0.4
2	0	16		0	4.4	77	31	23	.2	.1	0	.3
3	0	6.5		0	4.5	71	20	52	2.1	0	.2	2.3
4	0	1.1		0	4.7	293	16	26	2.0	0	.3	4.5
5	0	0		0	4.5	654	15	17	1.3	0	.4	3.8
6	0	0		0	4.0	292	14	17	.6	0	.3	3.8
7	0	0		0	4.0	138	13	18	.7	0	1.2	3.2
8	0	0		0	5.8	96	11	17	1.0	0	3.5	2.8
9	0	0		0	58	123	11	23	.7	0	2.4	2.7
10	0	0		0	29	83	9.9	30	.3	0	1.9	1.8
11	0	0		0	16	64	9.6	34	.6	0	2.7	1.8
12	9.2	0	N	0	12	60	9.0	35	.8	0	3.1	1.9
13	6.1	0	0	31	10	60	8.5	34	0	0	2.7	2.1
14	2.0	0		76	9.6	49	54	31	0	0	2.4	2.6
15	0	0		32	9.0	52	62	34	0	0	1.8	3.8
16	0	0		12	8.0	148	43	18	.4	0	1.0	3.8
17	0	0	F	6.1	7.2	70	54	.1	.3	0	.1	4.8
18	0	0	L	2.7	6.5	52	139	214	0	0	.1	4.8
19	0	0	O	0	6.1	44	96	491	0	0	.9	5.3
20	0	0	W	109	5.6	37	63	115	0	0	2.6	4.8
21	0	0		88	36	30	49	92	0	0	3.2	4.8
22	0	0		40	253	25	42	49	0	0	2.9	5.3
23	0	0		20	516	22	35	28	0	0	2.6	4.8
24	0	0		12	1040	23	28	19	0	.7	2.7	5.3
25	0	0		8.5	517	23	36	13	0	2.6	3.8	5.8
26	0	0		7.2	519	23	36	9.0	0	1.2	4.0	4.8
27	0	0		6.9	303	23	31	9.3	0	.2	2.7	4.8
28	0	0		6.5	122	19	27	9.0	0	0	3.3	29
29	0	0		5.6		12	22	4.6	.2	0	2.7	64
30	0	0		5.1		14	17	2.5	0	0	1.6	24
31	0	—		4.7	—	18	—	0.0	—	0	1.0	—
Mean	0.54	1.95	0	15.3	126	90.2	35.1	47.8	0.37	0.15	1.87	7.13
Ac-Ft	34	116	0	939	6980	5550	2090	2940	22	9.5	115	424

Maximum Discharge C.F.S. For Water Year 1,780 February 24, 1957; Year of Record 8,790 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 46980; 56-57 Water Year 19220

Station located 2300 feet above U. S. Highway 99E bridge, 1.3 miles northwest of Wheatland. Drainage area is 39.6 square miles. Dry Creek enters the Bear River at Mile 4.5R above mouth. Period of record October 1946 to date. Records computed by U. S. Geological Survey.

TABLE 97

FEATHER RIVER AT NICOLAUS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	2630	7160	2730	2900	3380	37300	10800	6920	11100	1610	779	681
2	2610	5320	2750	2880	3430	26400	10100	7580	11100	1490	667	730
3	2590	4560	2490	2720	3530	22100	9300	9880	10800	1290	639	723
4	2570	4390	2720	2900	3320	24300	9080	9240	9720	1190	604	786
5	2550	4130	2860	2850	3190	27000	8960	8520	8960	1180	674	898
6	2560	3880	3080	2560	3060	38100	8840	8700	8800	1130	639	964
7	2650	3970	3180	2400	3150	38000	8680	9150	8290	1090	674	912
8	2770	4300	2930	2650	3270	31900	8360	8700	7290	1000	625	1020
9	2880	4360	2840	2890	3950	27800	8220	8550	6890	912	674	1280
10	2910	4360	2630	3210	3770	26600	7890	8820	6610	800	702	1480
11	2880	4300	2610	3000	3430	23000	7830	7760	6320	793	786	1320
12	2970	4250	2890	2960	3460	20500	7540	6830	5950	800	807	1240
13	3150	4250	2900	4010	3520	21200	7280	6340	5440	842	765	1370
14	2920	4160	2940	6570	3730	19300	7530	6230	5030	737	674	1730
15	2740	4160	2920	5560	4030	17400	12100	6400	4600	653	625	1870
16	2630	4100	2900	4590	4210	18200	11100	5960	4240	646	632	2090
17	2580	3860	2900	4180	4460	17300	9150	5440	3860	674	674	2200
18	2630	3700	2890	4000	4050	15700	10600	6620	3490	730	660	2410
19	2740	3480	2910	3890	4550	14300	11400	32900	3350	688	681	2500
20	2760	3420	3120	4390	4840	13100	10200	43300	3180	646	695	2540
21	2770	3400	3150	5980	5300	12300	9210	33900	2830	667	674	2550
22	2760	3370	2940	4910	6750	12000	8700	27700	2650	730	625	2500
23	2860	3370	2890	4270	9270	11200	8900	24300	2650	744	583	2430
24	2850	3340	2700	3980	21000	10500	8840	21200	2480	744	583	2400
25	3050	3130	2650	3740	65800	9960	8080	18100	2270	863	527	2330
26	3030	2810	2610	3730	80200	9630	7650	15700	2200	919	514	2220
27	3140	2660	2670	3690	68200	9320	6870	14000	2080	905	520	2150
28	3430	2620	2620	3450	54000	9150	6580	13800	1850	891	688	2250
29	3310	2670	2510	3380		9210	6380	13600	1720	891	800	3150
30	3270	2710	2600	3410		9870	6540	12600	1690	891	730	2790
31	6760	—	2630	3400	—	10700	—	11900	—	898	646	—
Mean	2966	3873	2812	3711	13740	19140	8757	13570	5248	905	663	1784
Ac-Ft	182400	230500	172900	228200	763300	1177000	521100	834300	312300	55620	40790	106100

Maximum Discharge C.F.S. For Water Year 93,000 February 25, 1957
Year of Record 357,000 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 8813000
56-57 Water Year 4625000

Station located 0.2 mile below Nicolaus Bridge, Mile 9.2L above mouth. Feather River is an east-side tributary to the Sacramento River at Mile 20.9L above Sacramento. Period of record June 1921 to October 1938 (low water periods only); January 1939 to date. Records computed by U. S. Geological Survey.

TABLE 98

COON CREEK AT HIGHWAY 99E

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	14	44	48	24	31	146	49	27	14	*3.0	NR	15
2	19	33	44	25	32	107	41	65	18	9.2	NR	11
3	20	28	40	25	31	110	36	55	19	7.9	NR	12
4	20	30	44	26	30	464	33	46	17	6.1	NR	10
5	19	28	70	25	30	870	31	41	16	7.6	NR	13
6	24	28	68	25	30	406	29	39	14	6.5	NR	12
7	22	28	39	24	33	239	28	*30	13	NR	NR	12
8	29	27	28	25	68	169	26	*32	12	NR	NR	12
9	27	27	27	26	62	239	30	*31	12	NR	NR	11
10	26	27	27	25	44	149	28	*30	14	NR	NR	12
11	53	37	27	25	40	114	23	*29	11	NR	NR	14
12	44	30	26	29	40	135	40	*29	10	NR	NR	9.7
13	42	32	24	170	38	110	42	*32	13	NR	NR	12
14	40	43	24	73	36	92	131	*41	14	NR	NR	16
15	38	47	23	46	34	197	70	*38	13	NR	NR	16
16	35	47	23	39	34	267	55	33	15	NR	NR	15
17	29	48	23	37	33	137	115	28	14	NR	NR	17
18	21	50	22	35	33	107	273	498	9.2	6.1	NR	18
19	19	50	22	33	33	94	133	417	8.3	NR	NR	21
20	18	48	23	220	32	78	103	190	10	NR	NR	24
21	14	53	22	107	203	69	85	114	10	NR	NR	19
22	13	54	21	55	244	63	73	51	11	12	NR	18
23	13	54	21	46	365	62	65	37	8.8	15	NR	18
24	17	53	20	40	748	58	63	26	5.1	15	10	16
25	18	54	20	40	529	52	56	21	*2.5	15	11	17
26	27	56	21	40	372	49	48	18	*0	14	11	19
27	40	54	20	36	281	46	44	23	*0	7.6	13	35
28	37	53	20	34	158	44	40	26	*0	8.3	12	81
29	34	52	20	33		42	36	22	*0	7.2	12	69
30	154	52	21	32		47	32	21	*0	7.6	15	80
31	122	—	20	31	—	44	—	18	—	8.3	12	—
Mean	33.8	42.2	29.0	46.8	130	155	61.9	68.0	10.1			31.8
Ac-Ft	2079	2513	1781	2878	7228	9533	3685	4181	603			1295

Maximum Discharge C.F.S. For Water Year 2,090 May 18, 195[illegible]
Year of Record *6,180 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 61780
56-57 Water Year

Station located at U. S. Highway 99E bridge. Drainage area is 82.5 square miles. Coon Creek is an east-side tributary, via Natomas Cross Canal, to the Sacramento River at Mile 19.6L above Sacramento. Period of record November 1947 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 99

AUBURN RAVINE AT LINCOLN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June*	July	Aug	Sept
1	7.[illegible]	[illegible]	38	17	[illegible]	[illegible]	42	73	7	[illegible]	[illegible]	51
2	.1	35	29	17	29	99	40	112	8	6	[illegible]	51
3	.4	33	28	1[illegible]	24	3	34	90	3	[illegible]	[illegible]	51
4	.3	31	40	17	2[illegible]	301	31	72	[illegible]	65	59	51
5	9.5	30	43	22	34	589	33	[illegible]	3	[illegible]	63	52
6	9.8	28	39	23	34	229	31	66	[illegible]1	64	1	49
7	13	27	34	23	59	115	2[illegible]	60	*8	6[illegible]	[illegible]2	46
8	16	27	34	25	99	93	24	64	*[illegible]	6	71	45
9	16	27	32	26	45	122	21	62	*95	64	68	40
10	13	32	32	21	35	[illegible]8	17	6[illegible]	*54	61	[illegible]	28
11	19	33	28	23	44	66	16	59	*51	58	6[illegible]	20
12	14	32	28	20	44	80	31	59	*50	58	6[illegible]	2[illegible]
13	14	26	32	127	49	65	33	65	49	58	[illegible]5	2[illegible]
14	13	25	32	39	44	54	116	84	*4	59	64	2[illegible]
15	12	24	31	31	20	139	64	[illegible]8	*47	59	[illegible]2	28
16	12	23	31	30	22	123	5[illegible]	71	*47	57	63	30
17	8.0	23	31	29	22	79	97	6[illegible]	*47	58	[illegible]3	36
18	7.6	22	32	28	22	60	100	373	45	60	62	65
19	8.5	22	31	21	21	50	68	206	48	61	[illegible]2	32
20	8.0	24	31	164	18	48	[illegible]3	143	49	64	[illegible]5	27
21	[illegible].8	33	31	62	132	39	80	121	50	63	58	23
22	8.0	34	33	41	100	35	71	95	*50	64	[illegible]4	23
23	14	44	33	34	189	39	[illegible]9	85	*50	64	82	24
24	14	62	34	27	3[illegible]5	40	56	[illegible]7	51	64	52	22
25	10	63	32	27	220	39	44	[illegible]9	50	64	52	23
26	12	67	32	31	187	36	39	66	49	[illegible]2	54	23
27	19	68	33	25	128	32	43	62	48	63	52	31
28	15	67	32	24	80	32	38	50	52	63	54	45
29	13	67	30	22		35	40	44	5[illegible]	[illegible]5	54	44
30	131	66	28	23		44	59	42	[illegible]1	62	52	44
31	58	—	17	23	—	44	—	46	—	60	52	—
Mean	16.9	37.7	32.0	34.3	4.9	94.0	52.5	87.2	52.0	62.3	61.8	36.3
Ac-Ft	1042	224[illegible]	1966	2110	4101	5780	3124	5359	3094	383[illegible]	3800	21[illegible]

Maximum Discharge C.F.S. For	Water Year	1,250 February 24, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	[illegible]'90
	Year of Record			56-57 Water Year	38080

Station located 500 feet below the Lincoln-Newcastle highway bridge. Drainage area is 34.6 square miles. Auburn Ravine is an east-side tributary, via Natomas Cross Canal, to the Sacramento River at Mile 19.6L above Sacramento. Period of record November 1947 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 100

NATOMAS CROSS CANAL AT HEAD

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	22	225	70	33	48	*190	80	*23				5.1
2	22	114	62	32	54	*160	80	*32				5.[illegible]
3	25	80	34	31	58	*143	63	*58	*7	*1.6	*1.0	6.4
4	28	66	39	30	48	*155	54	*70				7.3
5	26	63	47	32	49	*680	48	*50				7.2
6	22	60	63	36	55	*1100	45	*39				6.5
7	25	56	74	39	57	*520	39	*35				6.6
8	28	54	65	38	65	*280	35	*39	*5.5	*1.5	*1.0	6.9
9	33	52	48	37	107	*210	32	*42			*1.5	6.4
10	36	47	42	40	109	*280	34	*40			*2.5	5.5
11	33	50	40	39	76	*180	28	*37			*3.2	5.6
12	47	56	39	48	78	*152	26	*31			*4.5	5.2
13	57	50	37	61	77	*185	42	*37	*3.5	*1.2	*6.0	3.2
14	49	44	38	194	78	*165	64	*51			6.7	3.1
15	47	53	54	143	71	*148	171	*65			6.9	5.7
16	49	58	47	92	55	*125	128	*64			6.0	3.7
17	46	60	44	72	49	*335	94	*56			4.8	3.0
18	36	62	44	64	47	*200	166	*67	*2.3	*1.1	6.[illegible]	3.2
19	26	63	44	59	45	*135	350	*580			6.4	9.2
20	25	60	44	66	43	*115	214	*400			6.2	13
21	25	59	44	294	46	*95	158	*280			5.8	28
22	24	65	46	205	259	*82	152	*190			6.0	29
23	20	72	46	120	387	*76	125	*110	*1.8	*1.3	6.8	23
24	21	77	45	88	640	*80	102	*80			13	32
25	25	76	45	72	*350	*74	87	*52			9.6	40
26	26	71	43	68	*560	*72	73	*35			6.6	32
27	30	69	43	68	*460	*68	54	*24			9.2	29
28	80	73	44	60	*350	99	34	*16	*1.5	*1.5	[illegible].3	37
29	58	71	44	55		78	25	*11			4.7	77
30	47	69	42	51		77	22	*9.0			4.6	98
31	106	—	40	49	—	88	—	*8.0	—	—	4.5	—
Mean	36.9	69.2	47.[illegible]	74.7	17[illegible]	205	87.5	84.9	3.6	1.4	4.7	18.1
Ac-Ft	2269	4116	2890	4594	956[illegible]	12590	5207	5219	214	84	[illegible]89	1077

Maximum Discharge C.F.S. For	Water Year	Total Discharge Ac.-Ft. For	56-Calendar Year	[illegible]8800
	Year of Record		56-57 Water Year	48110

Station located 3.5 miles northeast of Verona on E[illegible] Centro Road bridge. Natomas Cross Canal is [illegible] east side tributary to the Sacramento River at Mile 19.6L above Sacramento. Backwater from the Sacramento River at times affects the stage-discharge relationship of this station. Period of record December 1949 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 101

RECLAMATION DISTRICT 1001 DRAIN INTO NATOMAS CROSS CANAL

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	0			0	0	14	0	0	24			0
2	0			0	0	12	0	0	21			0
3	0			0	0	8.3	0	0	18			0
4	0			0	0	11	0	0	33			0
5	0			0	0	19	0	0	14			0
6	0			0	0	21	0	0	0			0
7	0	N	N	0	0	17	39	0	39	N	N	0
8	0			0	0	12	0	39	19			0
9	0	0	0	0	0	9.0	0	0	16	0	0	0
10	0			0	0	9.9	0	46	0			0
11	0			0	0	8.5	0	43	34			0
12	0			0	0	9.6	0	29	0			0
13	0			0	0	0	0	0	0			0
14	0			0	0	18	0	0	0			0
15	0			0	0	9.9	26	39	0			0
16	0			0	0	0	0	0	0			0
17	0	F	F	0	0	14	0	42	0	F	F	0
18	0	L	L	0	0	13	0	0	0	L	L	0
19	0	O	O	0	0	0	0	52	0	O	O	0
20	0	W	W	0	0	0	0	104	0	W	W	0
21	0			0	0	0	38	29	0			0
22	0			32	0	0	0	50	0			0
23	0			0	0	0	0	41	0			0
24	0			0	63	39	0	37	0			0
25	0			0	32	0	0	38	0			0
26	0			0	28	0	0	31	0			0
27	3.8			0	27	0	0	37	0			0
28	2.2			0	14	0	0	36	0			0
29	0			0		0	0	33	0			33
30	0			0		0	0	35	0			0
31	0	—		0	=	41	—	25	—			—
Mean	0.2	0	0	1.0	5.9	9.2	3.4	25.4	7.3	0	0	1.1
Ac-Ft	12	0	0	63	325	568	204	1559	432	0	0	65

Maximum Discharge C.F.S. For	Water Year	Year of Record	Total Discharge Ac.-Ft. For	56-Calendar Year	56-57 Water Year
					3228

This is drainage returned to the Natomas Cross Canal by pumping and gravity at Mile 0.75N above mouth. Natomas Cross Canal, the main drain between Reclamation Districts 1000 and 1001, is an east-side tributary to the Sacramento River at Mile 19.6L above Sacramento. Period of record January 1940 to date. Records computed by Department of Water Resources.

TABLE 102

SACRAMENTO RIVER AT VERONA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	11500	17800	10400	9460	8900	57700	21800	11100	26200	6780	6830	7340
2	11400	17100	10400	9350	8920	55800	21200	12200	25200	6820	6830	7490
3	11200	15600	10200	9240	8950	54000	19800	14500	24500	6940	6830	7670
4	10700	14600	10300	9220	8860	53600	18800	13500	23100	6900	6830	7840
5	10500	14000	10600	9060	8470	55700	17900	15200	21300	6950	6830	7970
6	10400	13400	10900	8810	8210	59100	17100	14800	20200	7120	6830	8000
7	10400	13100	11100	8470	8200	60000	16700	15300	19300	7060	6910	8040
8	10400	13300	10900	8810	8330	59300	16000	15700	17800	6960	6990	8420
9	10500	13300	10600	9100	8830	58500	15400	15800	16400	6880	7070	9100
10	10700	13300	10400	9400	9080	57500	14700	16900	15400	6620	7160	9420
11	10700	13300	10300	9510	8880	55700	13900	17300	14500	6540	7250	9400
12	10800	13100	10700	9550	8650	53300	13000	16800	14100	6350	7340	9370
13	11100	12800	11000	10800	8770	51800	12400	16800	13300	6360	7140	9440
14	11300	12600	11200	13900	8900	50100	12200	16900	12400	6460	6940	9870
15	11100	12500	11200	17800	9080	47000	14700	17300	11600	6380	6740	10200
16	10900	12300	11200	16600	9260	44500	18500	17700	10900	6540	6750	10500
17	10700	12200	11100	14500	9620	43200	17900	17600	10400	6650	6760	10800
18	10700	12000	11100	12800	9510	42400	17100	17000	9460	6820	6770	11000
19	10600	11700	10900	11600	9560	40600	19100	28100	9330	6720	6780	10900
20	10600	11600	11100	11100	10000	38000	20500	45100	8720	6720	6780	10800
21	10700	11600	11100	12500	10500	35700	20500	52400	8260	6800	6780	10800
22	10800	11600	10900	13500	11700	33600	20900	53600	7990	7040	6770	10800
23	10900	11600	10800	13200	14500	31800	20700	52500	7860	7260	6770	10600
24	11000	11300	10600	11800	25500	29900	19800	49300	7730	7220	6790	10100
25	11200	11100	10200	10700	46800	27800	17700	44500	7480	7060	6820	9890
26	11300	10800	10100	10300	64400	26000	15800	39400	7240	7100	6840	9600
27	11400	10500	10100	9940	63800	24500	13900	35400	6960	7010	6780	9420
28	11700	10400	10100	9600	61600	23200	12200	32900	6720	7000	6840	10400
29	12000	10300	9890	9280		21700	11300	31700	6780	7020	7020	14700
30	12200	10300	9740	9100		21000	10900	29900	6720	7100	7180	16500
31	14000	—	9600	8930	=	21600	—	27800	—	7060	7190	—
Mean	11080	12640	10600	10900	17060	43050	16750	26030	13260	6846	6908	9879
Ac-Ft	681100	751900	652000	670300	947700	2647000	996500	1601000	789100	421000	424700	587900

Maximum Discharge C.F.S. For	Water Year	65,500 February 26, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	17810000
	Year of Record	79,200 March 1, 1940		56-57 Water Year	11170000

Station located at Mile 19.6L above Sacramento, at the mouth of Natomas Cross Canal, 1.3 miles below the confluence of the Feather River. Period of record May 1926 to October 1928 (low-water periods only); May 1929 to date. Records computed by U. S. Geological Survey.

TABLE 103

RECLAMATION DISTRICT 1000 DRAIN (Pritchard Lake)

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept
1									0	*4.0	*5.1	*30
2									0	4.0	5.2	33
3									0	4.0	5.5	36
4									0	4.0	5.8	39
5									0	4.0	*6.	42
6									0	4.0	*10	42
7									0	4.0	9.0	42
8									0	4.0	*8.0	41
9									0	4.0	9.5	41
10									0	4.0	11	40
11									0	4.0	13	40
12	N	N	N	N	N	N	N	N	0	*4.0	14	40
13									0	4.0	16	38
14	O	O	O	O	O	O	O	O	0	4.0	17	37
15									0	*4.0	19	36
16									0	3.7	0	35
17									0	3.3	22	34
18									0	*3.0	23	32
19									0	3.0	25	31
20									0	3.0	24	33
21	F	F	F	F	F	F	F	F	0	3.0	23	36
22	L	L	L	L	L	L	L	L	0	*3.	23	38
23									0	4.2	23	40
24	O	O	O	O	O	O	O	O	0	5.5	23	42
25	W	W	W	W	W	W	W	W	0	6.8	23	44
26									0	*8.0	*23	46
27									0	8.	23	40
28									1.0	8.0	*23	34
29									2.0	*8.0	25	28
30									3.0	7.0	26	22
31		—			—		→		—	6.0	28	—
Mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.6	17.1	37.1
Ac-Ft	0	0	0	0	0	0	0	0	12	285	1053	2206

Maximum Discharge C.F.S. For Water Year — Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 5691; 56-57 Water Year 3556

This is drainage returned to the Sacramento River by pumping and gravity at Mile 16.0L above Sacramento. Additional water is returned to the Sacramento River at Mile 6.85L and at Mile 2.1L above Sacramento. Period of record January 195[illegible] to date. Records computed by Department of Water Resources.

* Estimated

TABLE 104

SACRAMENTO WEIR FROM SACRAMENTO RIVER TO YOLO BYPASS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1					0	156		0				
2					0	57		0				
3					0	0		0				
4					0	0.4		0				
5					0	281		0				
6					0	745		0				
7					0	661		0				
8					0	464		0				
9					0	377		0				
10					0	165		0				
11					0	28		0				
12	N	N	N	N	0	0	N	0	N	N	N	N
13	O	O	O	O	0	0	O	0	O	O	O	O
14					0	0		0				
15					0	0		0				
16					0	0		0				
17					0	0		0				
18					0	0		0				
19					0	0		0				
20					0	0		0				
21	F	F	F	F	0	0	F	27	F	F	F	F
22	L	L	L	L	0	0	L	116	L	L	L	L
23					0	0		95				
24	O	O	O	O	0	0	O	3.0	O	O	O	O
25	W	W	W	W	0	0	W	0	W	W	W	W
26					37	0		0				
27					183	0		0				
28					194	0		0				
29						0		0				
30						0		0				
31		—			—	0	—	0	—			—
Mean	0	0	0	0	14.8	94.7	0	7.8	0	0	0	0
Ac-Ft	0	0	0	0	821	5820	0	478	0	0	0	0

Maximum Discharge C.F.S. For Water Year — Year of Record *118,000 March 26, 1928

Total Discharge Ac.-Ft. For 56-Calendar Year; 56-57 Water Year 7119

Station located on Sacramento River at Mile 4.2 above Sacramento. Elevation of fixed crest is 25.0 U.S.E.D. datum; elevation of movable crest (top of needles) is 31.0 U.S.E.D. datum. Weir has 48 gates, each 38 feet in length. Flows listed are leakage through the gates. Period of record January 1940 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 105

RECLAMATION DISTRICT 1000 DRAIN (2ND BANNON SLOUGH)

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	79				0	87	62	0	43			0
2	59				0	65	45	0	57			0
3	67				0	112	0	0	59			0
4	67				0	158	0	0	19			0
5	0				0	149	0	0	62			0
6	0				0	186	47	0	35			0
7	0				0	145	0	0	0			0
8	0				0	103	0	49	61			0
9	0				0	125	0	35	0			0
10	0				0	66	0	61	54			0
11	0				0	0	28	45	0			0
12	0	N	N	N	0	71	0	0	0	N	N	0
13	0	0	0	0	0	71	0	35	0	0	0	0
14	0				0	70	0	49	0			0
15	0				0	64	0	35	0			0
16	0				0	66	36	43	0			0
17	0				0	47	33	42	0			57
18	0				0	62	35	85	0			42
19	0				0	50	0	115	0			84
20	0				0	0	28	310	0			85
21	0	F	F	F	0	0	0	138	0	F	F	75
22	0	L	L	L	0	69	0	73	0	L	L	57
23	0				154	68	0	110	0			45
24	0	0	0	0	174	0	24	101	0	0	0	59
25	0	W	W	W	160	68	28	71	0	W	W	54
26	0				156	49	0	49	0			0
27	0				156	0	0	71	0			43
28	0				152	0	0	29	0			0
29	0					0	00	68	0			26
30	0					0	0	45	0			83
31	0	—			=	0	—	43	—			—
Mean	8.8	0	0	0	34.0	62.9	12.2	54.9	13.0	0	0	23.7
Ac-Ft	540	0	0	0	1888	3870	726	3376	774	0	0	1408

Maximum Discharge C.F.S. For Water Year — Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 43070; 56-57 Water Year 12580

This is drainage returned to the Sacramento River by pumping at Mile 2.1L above Sacramento. Additional water is returned to the Sacramento River at Mile 6.85L and Mile 16.0L above Sacramento. Period of record June 1925 to October 1938 (low-water periods only); January 1939 to date. Records computed by Department of Water Resources.

TABLE 106

LINDA CREEK NEAR ROSEVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	38	53	28	31	44	108	54	33	34	12	7.6	22
2	38	40	29	30	35	87	48	64	33	8.9	7.6	22
3	40	38	31	31	31	99	46	67	29	8.9	7.6	15
4	38	36	33	32	33	314	41	59	26	5.6	8.3	18
5	41	34	41	32	30	*868	38	51	22	4.0	9.6	15
6	38	32	42	32	25	*421	*35	45	21	3.5	12	15
7	38	34	39	34	30	211	*34	44	20	3.0	12	16
8	41	38	37	35	48	157	*33	48	21	4.0	15	15
9	42	36	48	34	41	*214	*32	50	21	4.4	15	16
10	41	33	44	33	34	*174	*29	49	26	3.5	16	14
11	52	34	44	34	36	*149	35	49	21	1.5	17	14
12	52	35	35	39	33	*134	38	48	21	3.0	18	14
13	42	37	34	86	30	*109	40	47	20	2.5	18	18
14	38	35	33	61	28	*77	98	51	18	4.0	*15	20
15	38	34	32	47	27	164	75	51	19	5.6	*15	23
16	38	34	32	40	27	203	69	49	16	6.3	*15	26
17	36	34	32	38	28	98	85	48	13	5.6	15	30
18	33	34	32	36	28	88	208	122	11	4.0	15	29
19	32	32	33	36	28	85	104	247	8.3	3.0	18	31
20	31	33	32	143	27	83	77	146	12	4.0	17	31
21	33	35	33	77	62	76	67	127	10	8.3	16	28
22	36	34	32	58	84	69	61	98	10	10	17	28
23	36	35	31	48	175	64	60	86	8.9	8.9	17	27
24	40	35	31	45	265	61	56	78	8.9	9.6	18	27
25	36	33	30	39	281	58	52	70	8.3	8.9	18	24
26	38	35	30	38	236	55	48	66	6.3	7.6	18	20
27	47	35	31	38	248	53	44	62	4.4	6.9	18	26
28	45	33	32	40	104	49	42	51	5.6	8.3	17	44
29	42	36	32	43		52	36	48	6.3	8.3	17	52
30	110	33	32	48		59	32	44	6.9	6.9	18	55
31	123	—	31	47	=	57	—	38	—	7.6	20	—
Mean	44.3	35.3	34.1	45.3	74.9	145	57.2	68.9	16.3	6.1	15.1	24.5
Ac-Ft	2723	2102	2094	2787	4161	8918	3406	4237	968	374	928	1458

Maximum Discharge C.F.S. For Water Year — Year of Record 1,130 March 5, 1957

Total Discharge Ac.-Ft. For 56-Calendar Year 63780; 56-57 Water Year 34160

Station located near Southern Pacific Railroad bridge 0.6 mile below Auburn Boulevard (Old U. S. Highway 99E). Also known as "Dry Creek near Roseville." Linda Creek is an east-side tributary, via Back Borrow Pit of Reclamation District 1000, to the Sacramento River at Mile 1.3L above Sacramento. Period of record July 1949 to date. Records computed by Department of Water Resources.

* Estimated

TABLE [illegible]

INFLOW TO [illegible] RESERVOIR

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct	Nov	Dec	Jan.	Feb	March	April	May	June	July	Aug	Sept
1	504	1710	668	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	570	1340	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	495	1130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	622	1210	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	516	92[illegible]	1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	607	1050	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	562	1070	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	6[illegible]	1180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	682	1320	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	612	1420	1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	7[illegible]	1400	1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]
12	814	1190	1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	894	1210	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	677	1020	199[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	698	1020	1770	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	736	982	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	730	925	1270	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	652	1050	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	823	775	1180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	693	1050	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	755	804	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	572	900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	807	882	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	788	698	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	876	1010	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	1040	845	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	1280	770	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	1660	813	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	1120	682	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	1860	783	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	2920	—	[illegible]	—	[illegible]	—	[illegible]	—	[illegible]	—	[illegible]	—
Mean	869	1039	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ac-Ft	53420	61800	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Maximum Discharge C.F.S. For Water Year [illegible] Year of Record

Total Discharge Ac-Ft For 56-Calendar Year [illegible] 56-57 Water Year [illegible]

These quantities are the daily mean record[illegible] [illegible] into [illegible] storage, release, spill, precipitation, and evaporation and do represent [illegible] [illegible] the dam did not been constructed. Drainage area is 1,875 square miles. Per[illegible] primary [illegible]. Records computed by U. S. Bureau of Reclamation.

(a) 23-hour day
(b) 25-hour day

TABLE 108

DAILY CONTENT OF FOLSOM RESERVOIR

Date	Storage at end of day in thousands of acre-feet											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	531.6	503.1	435.4	408.1	414.9	624.[illegible]	652.2	7[illegible]	992.[illegible]	[illegible]	[illegible]	666.[illegible]
2	530.1	503.2	433.0	405.9	415.6	625.3	655.[illegible]	774.4	99[illegible]	[illegible]	[illegible]	[illegible]
3	528.0	500.8	430.[illegible]	403.4	416.2	627.7	659.0	7[illegible]4.0	[illegible]	[illegible]	[illegible]	656.[illegible]
4	526.1	498.9	429.6	401.4	415.6	630.0	664.1	791.[illegible]	[illegible]	[illegible]	[illegible]	652.3
5	524.3	496.7	429.7	399.5	415.0	63[illegible].6	667.2	80[illegible].4	[illegible]	[illegible]	[illegible]	647.0
6	522.7	494.2	430.3	398.6	414.5	624.0	672.9	[illegible]14.[illegible]	[illegible]	[illegible]	[illegible]	642.4
7	521.0	490.9	429.5	397.4	414.6	613.6	677.6	[illegible]26.[illegible]	[illegible]	[illegible]	[illegible]	637.6
8	519.5	489.1	428.6	396.1	415.8	604.4	681.1	839.2	[illegible]	[illegible]	[illegible]	632.8
9	518.2	487.7	427.6	395.1	418.0	601.1	684.3	848.2	[illegible]	[illegible]	[illegible]	628.2
10	516.5	486.1	426.7	393.5	419.4	608.9	689.7	[illegible]	[illegible]	[illegible]	[illegible]	623.1
11	515.3	484.4	425.2	393.0	420.8	613.7	695.3	862.5	[illegible]	[illegible]	[illegible]	618.6
12	514.3	482.6	424.8	393.2	424.0	620.2	700.4	868.4	[illegible]	[illegible]	[illegible]	614.4
13	513.3	480.8	426.1	396.1	428.0	625.7	705.4	872.1	[illegible]	[illegible]	[illegible]	609.9
14	511.9	478.4	426.5	399.9	435.7	628.6	716.7	874.6	[illegible]	[illegible]	[illegible]	605.6
15	510.6	476.0	426.8	401.7	442.4	630.3	726.0	876.1	[illegible]	[illegible]	[illegible]	601.3
16	509.4	473.8	426.8	402.9	447.0	629.7	729.9	878.2	[illegible]	[illegible]	[illegible]	596.9
17	508.1	471.4	426.4	403.6	452.2	626.8	732.3	881.4	[illegible]	[illegible]	[illegible]	592.5
18	506.7	469.2	425.9	404.0	457.4	625.1	736.2	907.4	[illegible]	[illegible]	[illegible]	588.2
19	505.7	466.4	425.3	404.6	461.7	625.0	738.8	970.6	[illegible]	[illegible]	[illegible]	584.3
20	504.4	464.0	424.3	406.9	465.4	625.8	740.3	981.0	[illegible]	[illegible]	[illegible]	579.3
21	503.2	461.5	422.6	409.5	469.9	623.9	741.0	981.6	[illegible]	[illegible]	[illegible]	[illegible]
22	501.6	459.1	421.[illegible]	411.0	476.2	622.1	740.6	978.9	[illegible]	[illegible]	[illegible]	[illegible]
23	500.5	456.8	421.0	412.0	488.0	620.3	740.6	972.6	[illegible]	[illegible]	[illegible]	565.5
24	499.3	454.2	420.0	412.5	515.9	619.1	740.6	971.9	[illegible]	[illegible]	[illegible]	561.0
25	498.5	451.8	419.0	413.1	572.7	620.0	741.5	974.5	[illegible]	[illegible]	[illegible]	556.5
26	497.9	449.1	417.4	413.7	595.5	621.0	742.6	978.3	[illegible]	[illegible]	[illegible]	551.9
27	497.8	446.4	415.9	413.6	611.0	623.2	744.5	983.6	[illegible]	[illegible]	[illegible]	547.7
28	498.4	443.6	414.1	414.0	618.9	626.1	746.8	988.0	[illegible]	[illegible]	[illegible]	543.7
29	498.0	440.9	412.5	414.4		632.4	748.9	988.8	[illegible]	[illegible]	[illegible]	539.6
30	499.2	438.3	411.3	414.7		640.1	751.6	987.9	[illegible]	[illegible]	[illegible]	534.6
31	502.3	—	409.6	414.7	—	646.6	—	987.5	—	[illegible]	[illegible]	—
Monthly Change	-31.1	-64.0	-28.8	+5.2	+204.2	+27.7	+105.0	+235.9	+16.6	-145.2	-188.0	-136.3

Annual gain or loss in storage: Calendar Year -110,900; Water Year +1,200 Acre-Feet
Differences in storage 1956 to 1957 water years: Maximums -2,600; Minimums +234,800 Acre-Feet

Period of record February 1955 to date. Records computed by U. S. Bureau of Reclamation.

TABLE 109

AMERICAN RIVER AT FAIR OAKS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	2580	1220	1990	1680	934	5200	2340	2070	7020	2860	3220	2510
2	1460	1230	2010	1710	926	5260	2340	1960	7020	2840	3240	2510
3	1400	963	2020	1690	942	5280	2320	1870	7000	2840	3240	2560
4	1380	2000	1450	1580	942	7270	2440	1870	6390	2880	3220	2560
5	1370	2060	1490	1470	1150	21300	2470	1870	5970	2900	3220	2560
6	1350	2060	1510	1220	1160	28200	2390	1870	6010	2960	3240	2560
7	1330	2030	1510	1480	1180	17700	2470	1860	5990	2940	3240	2550
8	1320	2030	1530	1600	1190	13500	2440	1850	6010	2970	3170	2550
9	1320	2060	1540	1590	1190	11300	2380	1850	6010	3020	3220	2580
10	1360	2100	1530	1600	1190	5540	2350	1850	5990	2980	3240	2540
11	1320	2100	1530	868	1190	5060	2430	1850	5970	2900	3270	2320
12	1300	2080	1550	1010	1190	5060	2440	1850	5120	2940	3120	2340
13	1180	2090	1550	1020	1190	5320	2400	2490	5040	2940	3110	2340
14	1260	2090	1550	1010	1200	5300	2400	4030	3880	2920	3190	2340
15	1300	2150	1510	990	1200	5460	2900	3900	3830	2920	3270	2310
16	1240	2120	1450	982	1210	7370	3900	3940	3850	2940	3280	2380
17	1250	2070	1520	1040	1210	7420	3800	3990	3830	2920	3380	2440
18	1280	2080	1610	974	1210	5950	3900	4040	2820	2980	3350	2430
19	1270	2060	1650	958	1210	4700	3900	5060	2800	3190	3360	2420
20	1300	2020	1640	958	1200	4240	3900	11400	2800	3140	3360	2440
21	1240	2060	1660	950	1360	4740	3900	12400	2780	3110	3360	2520
22	1270	2040	1680	950	1770	4860	3900	12400	2760	3220	3300	2540
23	1300	2060	1660	942	1770	4820	3900	11600	2750	3190	3300	2560
24	1240	2080	1610	942	2250	4130	3900	8450	2750	3200	3300	2560
25	1240	2060	1610	934	2480	2900	3900	6980	2800	3190	3300	2550
26	1370	2020	1610	934	4200	2360	4000	7180	2840	3200	3350	2620
27	1350	2010	1640	926	5240	2250	4320	7160	2790	3200	3360	2580
28	1230	2020	1690	926	5220	2190	4620	7700	2700	3200	3330	2450
29	1270	2010	1690	926		2220	5460	8660	2850	3200	3330	2440
30	1250	2050	1700	910		2210	5080	9170	2850	3200	3320	2480
31	1260	—	1700	861	—	2320	—	8640	—	3200	3280	—
Mean	1342	1967	1625	1149	1682	6890	3296	5220	4314	3035	3213	2485
Ac-Ft	82490	117100	99950	70670	93430	419400	196100	320900	260300	186600	201300	147800

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
	Water Year	29,900 March 6, 1957		56-Calendar Year	3635000
	Year of Record	180,000 November 21, 1950		56-57 Water Year	2196000

Station located at Mile 19.2R above mouth. Drainage area is 1921 square miles. These flows include releases from Folsom Reservoir. Period of record November 1904 to date. Records computed by U. S. Geological Survey.

TABLE 110

AMERICAN RIVER AT SACRAMENTO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	2600	1270	1950	1600	1020	5000	2480	2510	6710	2800	3050	2840
2	1330	1280	1950	1620	1040	5300	2480	2140	6670	2810	3050	2680
3	1550	1180	1960	1620	1060	5400	2410	2060	6690	2800	3040	2720
4	1260	1920	1570	1570	1060	6720	2480	2040	6200	2860	3020	2680
5	1400	2020	1490	1460	1230	18000	2560	2000	5640	2880	3000	2650
6	1330	2040	1500	1250	1300	29700	2460	1990	5680	2940	3050	2600
7	1360	2030	1500	1430	1340	21400	2510	1990	5660	2920	3050	2590
8	1320	2060	1540	1530	1350	14600	2460	1990	5660	2940	2940	2560
9	1340	2070	1530	1550	1350	12600	2410	1970	5640	2960	3020	2560
10	1310	2110	1520	1550	1340	6480	2310	1960	5640	2960	3050	2560
11	1390	2110	1520	940	1350	5330	2440	1970	5660	2840	3120	2380
12	1320	2110	1530	1010	1350	5200	2380	1950	5020	2890	2990	2340
13	1300	2130	1550	1050	1350	5400	2380	2250	4830	2910	2970	2340
14	1200	2140	1550	1020	1360	5400	2350	3680	3880	2880	3040	2350
15	1360	2170	1530	1010	1360	5500	2410	3710	3660	2880	3160	2340
16	1300	2170	1440	1010	1360	7200	4060	3730	3640	2880	3150	2350
17	1250	2110	1500	798	1360	7400	4070	3790	3630	2860	3240	2410
18	1280	2110	1550	1170	1360	6000	4110	3840	2890	2880	3230	2410
19	1320	2130	1600	988	1360	4800	4090	4150	2750	3050	3240	2400
20	1280	2040	1600	1010	1360	4300	4040	11000	2760	3050	3260	2380
21	1290	2110	1600	1000	1410	4710	4130	12500	2730	2970	3290	2460
22	1310	2090	1610	1000	1860	4730	4200	12400	2720	3100	3260	2480
23	1310	2090	1610	1000	1880	4690	4060	12300	2700	3070	3240	2480
24	1340	2160	1570	1000	2130	4040	4060	9200	2700	3080	3280	2490
25	1270	2160	1570	1000	2890	3230	4060	7700	2730	3050	3310	2510
26	1310	2130	1570	1000	3750	2490	4070	7600	2760	3070	3370	2570
27	1420	2070	1570	1000	5000	2370	4200	7210	2750	3080	3400	2590
28	1310	1930	1570	1000	5000	2300	4220	7300	2810	3070	3400	2480
29	1250	1930	1610	1010		2340	5090	8270	2780	3080	3370	2460
30	1330	1960	1610	976		2340	4960	8800	2780	3080	3370	2480
31	1290	—	1610	916	—	2410	—	8490	—	3070	3390	—
Mean	1362	1994	1593	1164	1771	7012	3331	5242	4212	2958	3173	2505
Ac-Ft	83760	118700	97940	71580	98340	431200	198200	322300	250700	181900	195100	149000

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
	Water Year	*30,000 March 6, 1957		56-Calendar Year	3666000
	Year of Record	176,000 November 21, 1950		56-57 Water Year	2199000

Station located at the "H" Street bridge, Mile 6.5L above mouth. American River is an east-side tributary to the Sacramento River at Mile 1.1L above Sacramento. Backwater from the Sacramento River at times affects the stage-discharge relationship of this station. Period of record July to October 1921; May 1924 to December 1943 (low water periods only); January 1944 to date. Records computed by U. S. Geological Survey.

* Estimated

TABLE 111

SACRAMENTO RIVER AT SACRAMENTO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	14000	17800	12600	10900	10100	65200	23300	13900	31700	9380	9560	10200
2	13100	17900	12600	10900	9930	63600	22900	14300	30500	9170	9460	10100
3	12900	16500	12400	10600	10100	61900	21600	16100	30200	9240	9310	10000
4	12400	15900	12100	10500	10100	61700	20800	17500	27900	9350	9330	10200
5	12100	15500	12400	10400	10000	71000	20400	17100	25400	9260	9570	10200
6	12000	15200	12400	10400	9900	83200	19500	16700	24200	9460	9630	10600
7	12000	14900	12800	10300	9690	79200	19300	17200	23400	9320	9670	10700
8	11800	15000	12900	10400	9620	72300	18500	17500	22100	9140	9480	10700
9	11900	15100	12800	10600	10000	70300	18000	17900	20700	9080	9430	11300
10	12000	15300	12600	10900	9910	65000	16900	18900	19700	9090	9670	11500
11	11900	15200	12100	10600	10100	61700	16800	19000	19500	8890	9890	11400
12	12200	14900	12500	10200	9880	59100	15800	18800	18500	8890	9980	11400
13	12500	15100	12500	11100	9950	57300	15100	18900	17700	8730	10000	11500
14	12400	14600	12900	13200	9940	55500	14900	20500	15000	8870	9910	12100
15	12500	14400	13100	17800	10100	52800	17600	20900	14800	8930	9870	12400
16	12300	14500	12700	17500	10200	50600	22100	21100	14200	8810	9660	12700
17	12100	14600	12600	15400	10500	49300	21200	21000	14000	9030	9840	13000
18	12200	14200	12700	14100	10700	47800	21000	21000	12500	9210	9660	13200
19	12000	14000	12700	12800	10700	44200	23000	34000	11700	9250	9690	13300
20	11900	13900	12800	12300	11100	44100	23900	53400	11300	9250	9890	13300
21	11800	14100	12800	13900	11300	41600	24000	65200	10900	9220	9770	13400
22	11900	13900	12800	14700	12900	38400	24600	63300	10600	9780	9780	13200
23	12000	14000	12800	14200	16200	36600	24100	63100	10400	9790	9620	12900
24	11900	13800	13000	13100	23100	33200	23800	59100	10200	9790	9600	12700
25	12200	13700	12300	12500	41900	31800	22700	52400	9800	9670	9790	12700
26	12400	13300	12100	11300	61700	27800	20400	46900	9460	9920	9810	12300
27	12400	12900	12000	11100	64600	25700	18700	42400	9420	9680	9670	12200
28	12700	12800	12100	10700	65900	25600	16800	39800	9270	9740	9860	12600
29	13200	12400	11900	10400		23000	16300	39100	9430	9720	10000	16400
30	13500	12500	11400	10200		22500	15800	37600	9350	9740	10200	18200
31	13800	—	12400	10100	—	23200	—	35700	—	9800	10200	—
Mean	12390	14[illegible]	12510	12040	17800	49850	19990	30980	16790	9329	9735	12210
Ac-Ft	761700	868[illegible]00	769200	740000	992[illegible]	3065[illegible]00	1190000	1905000	999300	573600	598600	726700

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
Water Year	[illegible],700 March 6, 1957		56-Calendar Year	21290000	
Year of Record	104,000 November 21, 1950		56-57 Water Year	13190000	

Station located at Mile 0.6L above "M" Street bridge, 0.2 mile below City of Sacramento intake, 0.5 mile below the confluence of the American River. Thia represents the flow of the Sacramento River past Sacramento into the Delta. Additional Sacramento River water reaches the Delta via Sacramento Weir and Yolo Bypass near Woodland. Daily mean flows are computed from curves which take into account tidal fluctuations during low stages. Period of record 1904, 1905, July to October 1921; May 1924 to December 1942 (low-water periods only); May 1943 to date. Records computed by U. S. Geological Survey.

TABLE 112

BEAR CREEK NEAR RUMSEY

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	1.5	4.4	2.2	2.1	3.5	53	14	9.6	4.2	1.3	1.[illegible]	[illegible]
2	1.5	3.5	2.2	2.1	4.0	41	13	11	3.3	1.4	1.1	[illegible]
3	1.4	3.1	2.2	2.1	3.7	32	12	12	3.3	1.3	1.0	1.[illegible]
4	1.5	2.6	2.4	2.2	3.5	35	12	9.2	3.1	1.0	[illegible]	[illegible]
5	1.4	2.6	3.1	2.2	3.3	40	12	8.8	2.9	1.0	[illegible]	1.9
6	1.3	2.4	3.3	2.1	3.3	35	12	8.1	2.[illegible]	[illegible]	[illegible]	[illegible].9
7	1.1	2.2	2.9	1.9	3.7	29	11	8.1	2.2	[illegible]	[illegible].9	[illegible].9
8	1.5	2.2	2.4	1.9	5.3	2[illegible]	10	8.1	2.2	0.[illegible]	[illegible].9	[illegible].9
9	1.9	2.2	2.2	2.4	4.0	24	11	10	2.2	0.[illegible]	.9	[illegible].9
10	1.7	2.2	2.4	2.1	3.5	21	11	11	2.2	[illegible].[illegible]	.9	[illegible].9
11	1.[illegible]	2.2	2.6	2.2	3.3	20	11	8.4	2.1	[illegible].8	[illegible]	[illegible]
12	1.7	2.2	2.9	[illegible].2	3.1	24	10	8.1	1.8	[illegible].7	[illegible]	[illegible].9
13	1.7	2.1	2.9	29	3.1	24	11	8.1	1.[illegible]	[illegible]	[illegible]	1.0
14	1.7	2.1	2.9	30	2.9	19	15	[illegible].	1.7	[illegible]	[illegible]	1.1
15	1.7	1.7	2.9	14	2.6	22	15	8.1	1.[illegible]	.9	[illegible]	1.3
16	1.5	1.8	2.6	7.3	2.2	37	12	.7	1.[illegible]	.8	[illegible]	1.3
17	1.4	1.9	2.6	5.0	2.4	28	15	[illegible].9	1.5	0.7	[illegible].7	1.4
18	1.4	1.9	2.4	3.7	2.1	29	3[illegible]	6.7	1.4	[illegible].[illegible]	[illegible].[illegible]	1.5
19	1.4	1.8	2.4	3.5	2.1	24	39	8.8	1.4	[illegible]	[illegible]	1.5
20	1.4	1.7	2.4	32	2.1	22	23	10	[illegible].3	[illegible]	[illegible].7	1.3
21	1.4	1.7	2.4	30	5.8	20	19	11	[illegible].[illegible]	[illegible].9	[illegible].7	1.1
22	1.4	1.7	2.4	14	8.4	18	16	9.6	1.4	[illegible].4	[illegible]	1.0
23	1.4	1.9	2.4	8.8	203	17	15	8.8	1.[illegible]	[illegible]	[illegible]	1.0
24	1.7	1.9	2.2	7.3	1370	17	18	6.1	1.[illegible]	[illegible].[illegible]	[illegible]	1.0
25	1.5	1.9	2.2	6.1	384	17	15	[illegible].3	[illegible].[illegible]	[illegible]	[illegible]	1.0
26	1.7	1.9	2.1	6.1	134	1[illegible]	12	6.7	1.[illegible]	[illegible].[illegible]	.9	1.[illegible]
27	2.1	2.1	2.1	6.1	87	16	12	6.[illegible]	1.[illegible]	[illegible].[illegible]	[illegible].[illegible]	3.6
28	1.8	2.1	2.1	4.7	53	15	11	5.6	1.[illegible]	[illegible].[illegible]	.9	5.8
29	1.8	2.2	2.1	5.0		15	10	[illegible].[illegible]	1.4	[illegible]	[illegible].[illegible]	5.[illegible]
30	5.8	2.1	2.2	[illegible].2		19	10	5.[illegible]	1.3	[illegible]	1.1	4.2
31	11	—	2.2	3.7	—	16	—	5.0	—	[illegible].[illegible]	[illegible].[illegible]	—
Mean	2.[illegible]	[illegible].[illegible]	2.[illegible]	[illegible].1	[illegible].5	24.9	14.[illegible]	8.[illegible]	[illegible].	[illegible].[illegible]	[illegible].[illegible]	1.[illegible]
Ac-Ft	123	132	151	49[illegible]	4680	1531	881	56[illegible]	1[illegible]	[illegible]	[illegible]	94

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
Water Year	2,550 February 24, 1957		56-Calendar Year	3[illegible]9[illegible]	
Year of Record	6,960 December 22, 1955		56-57 Water Year	[illegible]71[illegible]	

Station located approximately 7 miles northwest of Rumsey, 1.5 miles above mouth. Bear Creek is a north-side tributary to Cache Creek. Period of record September 1955 to date. Records computed by Department of Water Resources.

TABLE 113

CACHE CREEK NEAR CAPAY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957										
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	66	25	17	18	60	904	201	645	398	502	370	214
2	54	34	17	19	57	730	187	665	312	493	343	217
3	51	30	17	18	56	570	173	688	297	462	329	227
4	45	26	19	18	54	540	164	650	291	452	362	233
5	37	23	20	18	53	760	155	625	297	434	406	241
6	35	22	21	18	51	970	149	610	336	448	394	249
7	34	20	22	18	51	820	168	610	394	493	390	249
8	37	20	22	18	53	605	214	620	434	448	362	217
9	37	18	22	18	54	575	214	640	466	439	366	206
10	39	17	21	18	59	498	209	660	475	470	358	211
11	39	17	21	19	57	430	204	645	462	434	322	219
12	38	17	21	23	54	462	209	635	430	418	315	211
13	34	17	22	399	52	688	224	630	422	418	343	196
14	28	16	22	580	49	545	261	620	502	422	350	173
15	25	17	18	300	48	502	336	615	525	422	350	151
16	23	17	20	258	49	736	255	605	466	406	340	153
17	21	17	20	168	49	645	241	600	444	410	309	159
18	18	17	19	125	48	605	430	630	414	398	300	173
19	16	15	19	101	47	516	452	1130	406	406	300	164
20	14	17	18	217	47	457	326	1040	406	390	336	143
21	12	17	17	505	52	402	282	952	418	366	329	117
22	12	17	17	241	162	358	249	868	418	350	318	95
23	11	16	16	168	1310	326	495	808	434	336	303	89
24	11	16	15	133	5980	300	700	766	470	322	267	87
25	11	16	15	113	5380	282	688	724	511	326	241	87
26	10	17	15	99	2190	267	676	694	560	318	241	89
27	10	17	15	89	1850	249	670	665	570	312	270	111
28	10	17	15	80	1230	235	665	650	570	343	294	111
29	10	17	14	74		219	655	635	535	394	294	89
30	15	17	15	68		230	650	625	506	410	294	67
31	20	—	17	63	—	227	—	615	—	394	258	—
Mean	26.5	19.0	18.4	129	686	507	350	696	439	408	324	165
Ac-Ft	1630	1130	1130	7940	38090	31170	20830	42770	26120	25060	19940	9810

Maximum Discharge C.F.S. For Water Year 9,460 February 24, 1957
Year of Record 35,000 January 21, 1943

Total Discharge Ac.-Ft. For 56-Calendar Year 960900
56-57 Water Year 225600

Station located 1.8 miles above the Clear Lake Water Company's diversion dam, 3 miles northwest of Capay. Drainage area is 1052 square miles. Period of record May 1942 to date. Records computed by U. S. Geological Survey.

TABLE 114

CACHE CREEK AT YOLO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1				0	0	785	104	292	188			
2				0	0	610	67	265	39			
3				0	0	470	63	255	15			
4				0	0	392	41	225	0			
5				0	0	364	26	202	0			
6				0	0	749	13	205	0			
7				0	0	677	0	195	0			
8				0	0	546	0	195	0			
9				0	0	453	0	240	0			
10				0	0	395	0	268	0			
11				0	0	329	0	278	0			
12	N	N	N	0	0	298	0	275	0	N	N	N
13	0	0	0	0	0	478	0	278	0	0	0	0
14				147	0	439	0	268	0			
15				190	0	383	0	265	0			
16				120	0	481	0	265	0			
17	F	F	F	77	0	523	0	250	0	F	F	F
18	L	L	L	35	0	478	0	248	0	L	L	L
19	O	O	O	17	0	416	52	419	0	O	O	O
20	W	W	W	0	0	368	63	614	0	W	W	W
21				247	0	317	34	574	0			
22				245	0	282	23	523	0			
23				118	45	248	35	474	0			
24				61	3730	218	332	442	0			
25				28	6780	198	404	398	0			
26				12	2160	178	413	362	0			
27				5.9	1680	158	401	335	0			
28				3.8	1150	138	359	288	0			
29				1.8		124	335	272	0			
30				0		116	305	258	0			
31		—		0	—	130	—	242	—			—
Mean	0	0	0	42.2	555	379	102	312	8.07	0	0	0
Ac-Ft	0	0	0	2600	30830	23290	6090	19180	480	0	0	0

Maximum Discharge C.F.S. For Water Year 9,710 February 25, 1957
Year of Record 38,700 February 28, 1940

Total Discharge Ac.-Ft. For 56-Calendar Year 870400
56-57 Water Year 82470

Station located 0.5 mile south of Yolo. Drainage area is 1,137 square miles. Cache Creek is a west-side tributary to Yolo Bypass opposite Mile 7.0 northerly of Sacramento Bypass. Period of record January 1903 to date. Records computed by U. S. Geological Survey.

TABLE 115

YOLO BYPASS NEAR WOODLAND

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	31	4.7	4.0	24	24	30000	158	70	553	30	29	46
2	30	4.7	3.5	24	23	18000	146	62	348	30	28	54
3	26	4.0	3.3	23	22	8220	114	50	174	28	24	52
4	23	3.8	4.0	20	23	5180	96	44	110	25	23	46
5	22	3.8	9.8	20	22	7280	80	36	78	24	23	50
6	23	3.5	13	26	20	25400	58	36	64	23	24	50
7	22	3.5	12	35	20	35700	48	35	66	22	25	48
8	21	4.3	17	54	23	33900	46	30	69	23	25	54
9	13	4.7	20	133	23	29700	33	23	72	26	25	60
10	9.0	5.2	19	112	21	23800	23	23	74	25	25	75
11	9.0	5.2	18	74	21	15800	24	35	72	25	26	77
12	9.0	5.8	19	54	23	6220	24	56	50	23	31	66
13	7.6	5.8	21	72	24	2360	22	102	46	21	28	52
14	8.3	5.2	19	70	25	1260	23	107	26	21	23	45
15	9.0	3.8	17	75	23	1070	24	91	19	21	21	46
16	8.3	3.3	19	192	22	1000	26	96	21	20	21	50
17	9.0	3.0	20	129	19	826	29	129	22	19	21	57
18	7.6	2.8	21	80	15	776	33	128	23	19	25	50
19	5.8	2.4	22	57	12	730	29	182	23	19	33	42
20	4.7	2.2	23	51	11	646	28	383	22	19	31	38
21	4.3	2.2	24	45	11	572	24	1050	24	20	32	38
22	4.0	2.5	23	38	11	508	24	4000	30	24	35	36
23	3.8	3.1	19	38	19	454	25	6180	38	28	38	35
24	3.8	3.3	19	40	51	434	20	3940	42	24	40	30
25	3.3	3.5	20	37	3520	388	13	2240	42	23	42	29
26	3.3	4.7	23	37	14600	356	7.6	1750	40	23	44	28
27	3.3	7.6	23	35	39400	362	12	1500	36	26	38	26
28	3.1	7.0	22	32	39300	290	58	1400	40	28	36	25
29	3.0	6.4	23	30		212	77	1270	42	26	36	53
30	3.5	4.7	24	26		182	72	1150	35	25	36	54
31	4.7	—	23	25	—	156	—	801	—	26	37	—
Mean	10.9	4.22	17.7	55.1	3476	8122	46.6	871	76.7	23.7	29.8	47.1
Ac-Ft	671	251	1090	3390	193000	499400	2770	53550	4560	1460	1830	2800

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
	Water Year	41,900 February 28, 1957		56-Calendar Year	624800
	Year of Record	272,000 February 8, 1940		56-57 Water Year	764800

Flow is referred to the recorder in the Tule Canal below Sacramento Bypass except during periods of high water when it is referred to the recorder at Elkhorn above Sacramento-Woodland railroad bridge. Also known as "Yolo Bypass at Elkhorn". To get total flow through Yolo Bypass below Sacramento combine with Sacramento Weir and Putah Creek near Davis. Flow includes Cache Creek at Yolo, Ridge Cut at Knights Landing, and Fremont Weir. Period of record March 1930 to October 1938 (low-water periods only); January 1939 to date. Records computed by U. S. Geological Survey.

TABLE 116

PUTAH CREEK NEAR WINTERS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	3.4	14	26	25	50	40	44	41	45	49	26	13
2	5.8	30	25	24	50	38	44	42	41	49	18	13
3	7.4	43	24	25	50	36	45	43	45	49	15	13
4	7.8	43	25	25	50	40	46	47	48	50	14	13
5	7.2	44	25	25	50	45	45	46	48	50	13	14
6	10	42	25	25	49	43	45	45	49	50	12	14
7	13	42	25	25	47	41	45	45	48	50	12	14
8	9.8	37	25	26	44	42	45	45	48	49	12	14
9	8.6	38	26	26	42	42	48	44	48	47	12	13
10	8.4	42	26	26	42	42	45	43	47	47	12	13
11	8.4	42	26	27	38	42	45	43	46	47	12	13
12	8.6	40	26	30	40	43	44	42	46	46	12	13
13	8.6	40	26	31	52	43	44	44	46	47	11	13
14	8.6	39	26	35	46	43	44	45	47	47	10	13
15	8.6	40	25	28	46	45	43	46	46	39	12	13
16	8.2	34	25	35	43	47	42	46	46	23	11	13
17	8.4	39	25	48	18	45	42	45	44	28	10	13
18	8.4	38	26	53	37	42	42	47	41	25	10	13
19	4.6	37	25	52	37	43	39	51	44	24	12	13
20	5.4	36	25	53	38	43	40	48	46	25	12	13
21	4.6	35	25	52	46	43	40	50	46	25	11	12
22	3.8	34	25	52	36	44	40	46	45	25	11	12
23	12	33	24	52	74	44	40	46	38	16	11	12
24	6.6	32	24	50	157	45	41	45	47	12	12	12
25	7.0	31	24	51	52	45	40	45	52	12	11	12
26	7.8	31	24	51	42	45	40	45	47	12	11	12
27	8.2	30	25	52	40	45	39	46	45	13	12	11
28	7.8	29	25	52	40	45	38	45	48	14	12	7.4
29	7.6	28	24	51		45	42	45	49	15	12	7.2
30	12	26	24	51		44	43	46	49	12	13	9.0
31	15	—	24	50	—	45	—	45	—	20	13	—
Mean	8.12	35.6	25.0	39.0	48.4	43.1	42.7	45.2	46.2	32.8	12.5	12.4
Ac-Ft	499	2120	1540	2400	2690	2650	2540	2780	2750	2020	768	735

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
	Water Year	368 February 24, 1957		56-Calendar Year	550400
	Year of Record	81,000 February 27, 1940		56-57 Water Year	23480

Station located 6 miles west of Winters, Mile 27.6L above mouth. Drainage area is 577 square miles. Period of record June 1930 to date. (Prior record is available at a site 6 miles downstream.) Records computed by U. S. Geological Survey.

TABLE 117

PUTAH CREEK NEAR DAVIS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	0			0	24	28	20	12	4.8	0.9	3.8	
2	.5			0	30	26	17	12	4.4	.9	1.4	
3	.3			0	28	24	17	13	4.4	.8	1.8	
4	0			0	27	21	17	9.4	.9	.8	.6	
5	.1			0	31	22	20	10	1.4	.8	2.3	
6	0			0	34	26	19	10	4.1	.6	2.9	
7	0			0	27	26	17	7.6	6.5	0	1.6	
8	0			0	40	22	18	12	6.0	0	0	
9	.5			0	19	24	16	6.0	7.6	0	0	
10	.5			0	19	20	18	8.2	7.0	0	0	
11	.6			0	16	21	19	4.4	5.6	0	0	
12	1.5	N	N	0	13	22	17	4.1	4.1	0	0	N
13	1.5	O	O	11	5.0	21	13	4.1	.8	0	0	O
14	2.3			4.0	12	21	15	3.8	1.4	0	0	
15	2.6			1.8	20	26	14	5.2	2.3	0	0	
16	1.2			.8	12	27	14	6.0	2.9	0	0	
17	1.6	F	F	.5	18	26	16	9.4	5.2	0	0	F
18	.4	L	L	3.4	4.2	26	15	15	6.0	0	0	L
19	.2	O	O	16	1.1	24	20	24	2.9	0	0	O
20	.4	W	W	30	2.5	22	16	31	1.0	0	0	W
21	0			25	4.0	20	16	31	1.2	0	0	
22	0			24	7.4	19	16	26	.4	.2	0	
23	0			24	39	20	14	13	3.2	0	0	
24	0			24	436	21	14	11	1.8	.7	0	
25	0			25	238	21	12	8.8	0	1.2	0	
26	0			17	56	21	16	6.0	0	.8	0	
27	0			26	41	17	19	8.8	.4	1.2	0	
28	0			32	32	20	14	9.4	.6	.2	0	
29	0			35		20	11	7.0	.8	0	0	
30	0			13		20	9.4	6.5	.8	0	0	
31	0	—		32	—	21	—	4.4	—	3.7		—
Mean	0.46	0	0	11.1	44.2	22.4	16.0	10.9	2.95	0.41	0.46	0
Ac-Ft	28	0	0	683	2450	1380	951	673	176	25	29	0

Maximum Discharge C.F.S. For	Water Year	1,150 February 24, 1957	Total Discharge Ac.-Ft. For 56-Calendar Year 535300
	Year of Record	46,600 December 22, 1955	56-57 Water Year 6400

Station located 3.3 miles southeast of Davis, Mile 9.0R above mouth. Drainage area is 636 square miles. Putah Creek is a west-side tributary to Yolo Bypass below Sacramento Bypass. Period of record May 1948 to date. Records computed by U. S. Geological Survey.

TABLE 118

INFLOW TO MILLERTON LAKE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	1560	1602	934	552	673	2019	1728	2879	5171	3578	1672	683
2	1475	1517	726	933	370	1935	1436	2921	6088	3043	1717	684
3	1570	1417	1314	757	493	1877	1376	2813	6951	2619	1713	1022
4	1675	1314	1620	842	716	1643	1454	2826	7347	2693	1225	1349
5	1548	1326	1744	456	699	1648	1874	3101	7063	2534	1347	1423
6	1500	1617	1660	506	676	1885	2503	3285	7154	2648	1765	1470
7	1459	1292	1624	655	820	2132	2423	3692	6327	2577	1756	1304
8	1350	1536	1132	647	891	1869	2127	3399	6226	2319	1641	639
9	1567	1476	1168	620	612	2400	2327	2742	5370	2347	1667	1277
10	1553	1454	1431	775	543	1996	2298	2472	4294	2389	1435	1418
11	1548	758	1463	646	1068	1684	2512	2582	3758	2342	1330	1326
12	1606	989	1513	302	1449	1722	2405	2455	4034	2398	1350	1417
13	1541	851	1398	1795	1163	1839	2502	2496	4460	2164	1658	1413
14	1380	707	1466	1200	1312	1909	2498	2444	4750	2052	1452	988
15	1458	798	1534	717	1193	1711	2673	2442	3979	2204	1651	444
16	1531	797	1286	619	1213	1542	2217	2467	3551	2076	1441	985
17	1408	548	1268	334	1097	1327	1905	2470	3475	1965	1308	1336
18	1603	496	1162	622	1246	1336	2606	3502	3750	2038	975	1373
19	1476	903	1382	492	1227	1683	2138	13059	4194	2140	1153	1308
20	1491	1076	998	928	1121	1417	2076	5128	4368	1933	1467	1279
21	1385	924	996	842	1346	1260	1859	4194	4278	1591	1427	857
22	1321	1175	1040	756	1175	1385	1769	3810	3895	1699	1453	509
23	1511	1443	1110	758	2024	1250	1934	3601	3891	1589	1418	1313
24	1449	1217	1032	984	2206	884	2070	3476	4205	1827	976	1214
25	1472	764	923	1115	3668	1237	2492	3419	4312	1872	675	1190
26	1398	1305	1156	447	2526	1446	2332	3455	4574	1809	1228	1169
27	1378	1126	1013	378	1980	1496	2551	4024	4754	1666	1193	1165
28	1334	936	642	765	1984	1611	a 2915	4346	4512	1656	1441	884
29	1448	1169	767	1125		1592	2931	3908	4370	1718	1373	b 615
30	1695	1248	587	592		1672	2815	3531	3735	1916	1460	971
31	1376	—	715	762	—	1477	—	4156	—	1636	808	—
Mean	1486	1126	1187	739	1268	1641	2225	3584	4828	2163	1393	1101
Ac-Ft	91371	67004	73000	45465	70395	100927	132148	220354	287278	132968	85636	65555

Maximum Discharge C.F.S. For	Water Year		Total Discharge Ac.-Ft. For 56-Calendar Year 2594000
	Year of Record		56-57 Water Year 1372000

These quantities are the daily mean second-feet inflow to Friant Reservoir, taking into account change in storage, release, spill, precipitation, and evaporation, and are representative of the natural flow passing the dam site if the dam had not been constructed. Drainage area is 1,633 square miles. Period of record October 1941 to date. Records computed by U. S. Bureau of Reclamation.

(a) 23-hour day
(b) 25-hour day

TABLE 119

DAILY CONTENT OF MILLERTON LAKE

Date	Storage at end of day in thousands of acre-feet											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	191.8	187.0	206.9	259.3	296.3	341.5	329.1	360.9	497.2	508.5	370.6	241.7
2	191.0	187.0	208.2	260.5	296.8	343.7	326.6	365.3	501.6	506.5	375.2	237.0
3	190.1	187.1	210.7	261.4	297.6	345.6	323.8	369.5	506.8	503.8	370.7	233.2
4	189.6	187.6	213.8	262.5	298.9	347.1	321.3	373.6	511.7	501.3	364.9	229.1
5	189.3	188.4	217.2	262.9	299.6	348.5	319.4	377.8	515.5	498.4	359.2	226.3
6	189.2	189.8	220.3	263.4	299.3	350.4	318.7	382.2	519.3	495.5	354.4	223.
7	189.2	190.4	223.4	264.2	299.3	352.7	317.5	387.1	521.5	492.3	349.7	219.8
8	188.9	190.9	225.6	265.0	299.7	354.4	315.8	391.4	523.1	488.6	344.9	215.1
9	189.0	191.0	227.8	265.9	300.2	356.8	314.6	394.4	522.8	484.8	340.5	211.6
10	188.6	191.0	230.2	267.0	300.6	357.6	313.7	396.9	520.9	481.1	335.8	208.5
11	188.1	189.6	232.5	268.0	302.0	357.6	313.4	399.8	518.4	477.3	330.7	205.2
12	188.0	188.7	234.7	268.1	303.9	357.6	313.2	402.4	516.5	473.6	325.7	202.4
13	188.0	187.8	236.5	271.5	305.1	357.7	313.4	405.3	516.0	469.6	321.4	199.8
14	187.7	187.1	238.4	273.7	306.6	357.9	313.5	407.5	517.1	465.2	317.3	196.5
15	187.5	186.8	240.4	274.9	308.4	357.8	314.2	409.9	515.8	461.1	313.7	192.2
16	187.5	186.6	241.9	275.9	310.1	357.2	314.2	412.4	513.6	456.8	309.7	189.2
17	187.2	186.1	243.5	276.2	311.6	356.3	313.9	414.9	511.3	452.3	305.5	187.0
18	187.3	185.6	244.8	277.0	313.3	355.3	316.2	419.4	509.3	448.0	300.6	185.1
19	187.1	185.9	246.3	277.7	314.9	354.8	318.4	443.5	509.3	443.9	296.0	183.2
20	186.8	186.7	246.7	279.4	316.2	353.7	320.7	452.0	510.7	439.5	292.1	181.4
21	186.3	187.7	247.4	280.9	317.9	351.9	322.6	458.7	511.3	434.0	287.8	178.9
22	185.9	189.4	248.9	282.3	319.3	350.1	324.5	464.7	511.1	428.8	283.7	175.7
23	185.9	191.7	250.5	283.7	322.2	348.0	327.0	469.5	510.7	423.5	279.6	173.9
24	185.5	193.6	252.0	285.5	325.4	345.1	330.1	473.8	510.6	418.7	274.9	171.7
25	185.5	194.5	253.2	287.6	331.0	342.7	334.3	477.9	510.2	414.0	269.5	169.3
26	185.5	196.7	254.9	288.4	334.6	340.7	338.1	481.7	510.3	409.3	265.2	166.9
27	185.5	198.9	256.3	289.0	337.2	338.8	342.4	486.4	510.8	404.3	260.9	164.7
28	185.4	200.6	256.9	290.4	339.5	337.0	347.1	490.1	510.9	399.2	257.2	162.3
29	186.0	202.8	257.7	292.5		335.1	352.0	492.7	510.9	394.2	253.6	159.8
30	187.3	205.2	258.2	293.6		333.3	356.5	493.4	509.8	389.7	250.4	157.0
31	187.1	—	258.9	294.9	—	331.0	—	494.8	—	384.5	246.1	—
Monthly Change	-5.6	+18.1	+53.7	+36.0	+44.6	-8.5	+25.5	+138.3	+15.0	-125.3	-138.4	-87.1

Annual gain or loss in storage: Calendar Year -208,200; Water Year -33,700 Acre-Feet
Differences in storage 1956 to 1957 water years: Maximums +53,000; Minimums +24,900 Acre-Feet

Period of record October 1941 to date. Records computed by U. S. Bureau of Reclamation.

TABLE 120

SAN JOAQUIN RIVER BELOW FRIANT

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	598	326	56	345	57	61	59	117	140	199	162	136
2	660	322	52	331	57	58	63	128	151	199	164	136
3	777	322	52	303	57	58	69	130	171	193	164	136
4	777	322	53	278	57	58	78	126	176	183	162	136
5	777	322	58	257	57	58	108	126	142	183	162	136
6	750	322	55	257	56	58	118	128	142	183	162	134
7	718	380	54	257	57	58	142	128	178	183	160	132
8	718	580	54	224	57	58	171	128	412	181	160	130
9	738	705	54	183	57	68	183	128	520	181	160	130
10	784	784	189	183	58	61	183	124	342	181	160	130
11	784	791	288	169	58	60	176	124	174	181	160	130
12	784	791	364	117	58	60	164	124	157	181	160	130
13	784	705	490	94	58	59	157	126	157	181	160	130
14	784	440	490	94	58	59	160	106	155	181	157	130
15	784	288	495	94	58	59	157	88	155	181	157	130
16	784	280	495	83	57	59	144	88	155	178	157	130
17	791	167	495	56	58	58	130	91	155	178	157	130
18	798	80	495	56	58	58	132	99	155	178	155	128
19	770	82	580	56	59	58	128	104	155	178	155	128
20	744	74	791	59	59	58	117	102	155	176	155	128
21	744	49	580	57	59	59	102	106	155	174	155	128
22	660	48	294	56	60	58	102	102	155	178	153	128
23	718	48	294	56	60	58	102	101	155	174	155	122
24	903	49	294	56	60	58	104	101	155	181	155	117
25	917	50	294	56	60	58	104	101	162	174	155	117
26	861	50	294	58	59	58	106	104	155	166	155	117
27	819	50	294	57	59	58	106	106	178	164	153	115
28	819	51	316	57	59	58	104	108	199	162	153	115
29	610	51	340	57		58	104	108	199	162	146	115
30	360	52	340	57		59	106	108	199	162	138	117
31	322	—	340	57	—	59	—	118	—	162	136	—
Mean	737	286	301	133	58.1	58.9	123	112	189	178	156	127
Ac-Ft	45300	17020	18530	8170	3230	3620	7300	6900	11220	10940	9610	7580

Maximum Discharge C.F.S. For:	Water Year	1,090 October 25, 1956	Total Discharge Ac.-Ft. For	56-Calendar Year	1199000
	Year of Record	77,200 December 11, 1937		56-57 Water Year	149400

Station located t Mile 268.13L above mouth, 1.5 miles below Friant Dam. Drainage area is 1,675 square miles. Period of record October 1938 to date. (Prior records available at sites 2.5 and 4.5 miles upstream.) Records computed by U. S. Geological Survey.

TABLE 121

LITTLE DRY CREEK AT MOUTH, NEAR FRIANT

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1					0	3.4	0	0				
2					0	4.8	0	0				
3					0	2.0	0	0				
4					0	1.6	0	0				
5					0	1.3	0	0				
6					0	1.2	0	0				
7					0	1.0	0	0				
8					0	1.0	0	0				
9					0	1.7	0	0				
10					0	2.8	0	0				
11					0	1.7	0	0				
12	N	N	N	N	0	1.0	0	0	N	N	N	N
13	O	O	O	O	0	1.0	0	0	O	O	O	O
14					0	.9	0	0				
15					0	.9	0	0				
16					0	1.0	0	0				
17	F	F	F	F	0	1.0	0	0	F	F	F	F
18	L	L	L	L	0	.8	0	0	L	L	L	L
19	O	O	O	O	0	.5	.4	0	O	O	O	O
20	W	W	W	W	0	.3	.5	.4	W	W	W	W
21					0	0	.1	1.4				
22					0	0	0	.9				
23					0	0	0	.2				
24					0	0	0	0				
25					1.7	0	0	0				
26					3.0	0	0	0				
27					1.2	0	0	0				
28					1.0	0	0	0				
29						0	0	0				
30						0	0	0				
31		—			—	0	—	0	—			—
Mean	0	0	0	0	0.25	0.96	0.03	0.09	0	0	0	0
Ac-Ft	0	0	0	0	14	59	2.0	5.8	0	0	0	0

Maximum Discharge C.F.S. For Water Year 9.4 February 25, 1957
Year of Record 1,810 January 25, 1952

Total Discharge Ac.-Ft. For 56-Calendar Year 11210
56-57 Water Year 81

Station relocated from a point 4 miles above mouth to 150 feet above highway bridge, 3.8 miles south of Friant on December 21, 1956. Little Dry Creek enters the San Joaquin River at Mile 264.0L above mouth. Period of record 1937 to date. Records computed by U. S. Geological Survey.

TABLE 122

SAN JOAQUIN RIVER NEAR BIOLA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	596	386	77	317	74	85	45	81	82	132	96	81
2	591	365	76	317	75	89	44	80	87	132	98	92
3	625	356	79	314	76	80	39	81	92	124	99	98
4	752	353	80	287	75	82	35	89	87	123	101	92
5	777	347	79	280	74	79	38	89	84	112	103	86
6	784	341	76	246	72	80	41	90	87	109	101	87
7	770	338	76	238	74	82	59	92	89	106	103	84
8	734	356	74	238	76	85	69	92	97	106	101	88
9	716	500	72	228	76	80	90	95	170	107	96	90
10	728	584	70	190	72	82	107	95	410	106	98	88
11	770	665	75	178	71	86	108	100	369	98	96	72
12	770	685	192	178	72	80	112	102	200	99	99	80
13	770	690	256	166	74	72	119	107	137	104	101	77
14	770	636	392	134	72	74	117	112	123	111	93	75
15	764	492	419	118	70	70	121	105	109	126	90	80
16	752	347	428	112	70	71	117	86	104	123	92	90
17	746	317	434	108	70	68	112	74	107	107	95	99
18	746	261	440	96	69	69	146	82	106	114	99	104
19	746	172	440	86	68	66	156	119	98	101	107	101
20	722	139	482	86	68	64	133	121	90	104	101	96
21	692	126	620	96	68	60	137	112	90	109	90	96
22	692	115	556	92	69	59	122	119	90	114	88	99
23	625	102	347	85	71	60	107	107	88	112	78	98
24	640	96	308	82	71	58	107	102	93	107	99	90
25	833	92	302	80	72	59	107	100	90	101	103	84
26	864	88	296	84	72	62	108	100	81	104	111	74
27	819	85	293	84	71	59	108	94	87	107	106	72
28	764	84	287	81	72	56	107	89	84	109	96	86
29	764	81	293	79		51	94	80	114	111	95	87
30	636	79	314	76		49	89	80	124	103	96	92
31	454	—	317	74	—	47	—	84	—	95	87	—
Mean	723	309	266	156	71.9	69.8	96.5	95.5	122	110	97.4	87.9
Ac-Ft	44450	18400	16360	9580	3990	4290	5740	5870	7280	6780	5990	5230

Maximum Discharge C.F.S. For Water Year 880 October 26, 1956
Year of Record 7,240 December 27, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 1164000
56-57 Water Year 134000

Station located at Mile 236.4R above mouth, 1.8 miles below Skaggs Bridge. Also known as "San Joaquin River below Skaggs Bridge." Drainage rea is 1,805 square miles. Period of record 1926 to 1938 (Southern California Edison Company): October 1952 to date. Records computed by U. S. Geological Survey.

TABLE 123

SAN JOAQUIN RIVER AT WHITEHOUSE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	503	409	61	309	58	52	14	47	32	56	47	21
2	508	359	58	310	57	57	14	41	39	57	28	18
3	503	335	56	309	57	57	10	37	30	58	28	23
4	556	322	55	300	56	58	8	37	40	50	29	25
5	625	312	54	281	55	56	5	39	36	42	30	24
6	648	302	54	259	55	54	3	40	35	37	30	22
7	654	297	55	246	54	55	2	41	38	43	30	22
8	638	292	55	241	54	56	7	41	79	40	31	21
9	618	360	53	234	55	62	14	42	275	35	31	24
10	619	464	53	220	55	62	23	44	350	32	26	23
11	653	580	53	190	54	62	36	44	249	32	26	24
12	673	634	65	184	52	56	45	48	225	28	32	14
13	683	648	150	184	52	48	44	48	130	34	35	14
14	693	645	240	157	51	42	53	52	78	42	30	15
15	702	553	331	132	50	38	62	56	60	45	25	16
16	700	401	368	116	50	35	63	47	53	52	22	22
17	697	314	388	108	49	34	63	42	48	50	22	29
18	692	282	402	101	47	35	64	37	62	42	22	26
19	688	246	407	86	43	35	76	36	67	41	24	28
20	691	178	418	80	44	33	92	50	55	36	28	32
21	651	143	499	83	41	32	86	66	40	35	31	30
22	636	121	592	87	39	30	90	67	41	37	22	34
23	621	112	453	80	41	29	85	71	43	41	19	37
24	546	93	337	74	41	33	68	66	41	35	15	36
25	671	86	308	72	41	30	64	61	38	28	21	26
26	751	80	304	71	41	29	61	59	34	30	30	26
27	767	73	295	69	45	30	62	55	29	32	37	23
28	716	67	289	69	44	30	a 62	46	32	35	39	22
29	713	65	283	67		25	63	41	33	38	34	b 27
30	706	63	298	66		23	53	37	46	36	26	36
31	521	—	308	64	—	21	—	29	—	27	26	—
Mean	647	295	237	156	49	42	46	47	78	40	28	25
Ac-Ft	39755	17526	14557	9618	2739	2577	2756	2910	4657	2432	1698	1470

Maximum Discharge C.F.S. For	Water Year		Total Discharge Ac.-Ft. For	56-Calendar Year	1054000
	Year of Record			56-57 Water Year	102700

Station located at Mile 219.83R above mouth, 13 miles below the head of Gravelly Ford Canal. Period of record 1901 to date. Records computed by San Joaquin Canal Company.
(a) 23-hour day
(b) 25-hour day

TABLE 124

SAN JOAQUIN RIVER NEAR MENDOTA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	120	44	3.0	33	11	92	392	232	329	406	479	220
2	116	48	3.0	33	11	1490	402	222	358	406	473	263
3	108	48	4.0	33	12	1721	382	195	398	409	473	318
4	89	44	4.0	33	11	1623	296	195	395	409	473	299
5	76	43	4.0	33	208	908	296	197	395	412	467	275
6	77	40	4.0	33	452	60	291	215	425	437	452	272
7	100	38	4.0	33	360	46	285	240	420	461	446	270
8	104	38	4.0	31	1067	38	314	250	406	458	434	267
9	98	36	3.0	30	2407	33	345	262	369	458	431	267
10	95	36	3.0	28	2282	31	326	262	342	464	434	265
11	102	36	3.0	27	2664	39	307	265	312	476	434	280
12	104	34	3.0	26	720	88	283	262	285	473	420	299
13	100	33	15	20	128	106	260	265	304	473	409	299
14	98	38	19	16	167	129	252	267	331	476	403	280
15	97	38	22	16	94	136	254	267	334	479	401	265
16	97	34	22	15	53	155	254	267	329	464	401	283
17	95	33	47	15	44	150	257	270	331	452	398	312
18	93	31	82	14	42	192	224	266	370	455	401	323
19	89	26	70	12	41	265	150	165	401	458	403	331
20	86	23	38	12	42	280	84	152	414	455	401	326
21	84	16	33	12	58	326	42	95	425	455	401	320
22	86	11	33	12	76	347	35	88	420	458	401	315
23	86	8.0	36	12	53	345	50	88	420	470	398	339
24	82	6.0	40	11	31	347	81	86	425	485	398	406
25	76	5.0	38	12	25	389	91	84	409	482	401	406
26	72	5.0	37	12	23	417	138	112	409	485	398	403
27	70	5.0	36	12	22	417	148	165	403	482	401	395
28	70	5.0	34	12	23	417	187	220	406	479	398	353
29	69	4.0	34	12		465	230	266	403	476	360	337
30	57	3.0	33	11		530	230	320	401	476	296	230
31	45	—	30	11	—	444	—	326	—	476	245	—
Mean	88.4	27.0	23.9	20	398	388	230	212	379	458	411	307
Ac-Ft	5437	1605	1470	1230	22110	23850	13660	13020	22550	28180	25250	18280

Maximum Discharge C.F.S. For	Water Year	3,070 February 11, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	178000
	Year of Record	8,840 June 1, 1952		56-57 Water Year	176600

Station located 2.5 miles below Mendota Dam, Mile 206.2L above mouth. Drainage area is 4,310 square miles. Period of record October 1939 to date. Records computed by U. S. Bureau of Reclamation.

TABLE 125

SAN JOAQUIN RIVER NEAR DOS PALOS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			25	0	60	0	1	12	0	2	0	0
2			31	0	52	290	1	12	1	0	0	0
3			33	0	27	2099	0	8	2	0	5	0
4			34	0	23	2468	5	12	5	0	4	0
5			36	34	22	2498	12	12	5	0	0	0
6			36	46	163	981	12	11	2	8	0	0
7			37	46	283	198	12	8	12	11	6	0
8			37	48	236	81	9	12	12	5	4	0
9			37	46	1101	53	8	12	12	8	0	0
10			38	44	1688	38	12	9	12	0	0	5
11			36	43	2028	10	12	0	12	0	0	0
12	N	N	40	46	1844	0	12	0	12	8	0	0
13	O	O	36	56	390	0	12	0	12	9	0	0
14			19	46	24	0	12	0	12	0	0	0
15			D	42	5	0	12	0	12	0	0	0
16			0	44	0	0	12	0	12	0	0	0
17	F	F	0	44	0	0	7	3	0	0	5	0
18	L	L	0	44	0	0	0	0	0	0	0	1
19	O	O	0	43	7	0	4	15	8	0	5	0
20	W	W	0	42	10	0	1	0	0	0	8	0
21			0	40	10	0	0	0	0	3	0	0
22			0	36	10	0	0	0	5	12	0	0
23			0	34	6	0	0	0	1	12	6	0
24			0	32	0	0	0	0	0	4	0	0
25			0	31	0	0	0	0	0	5	0	0
26			0	29	0	0	8	0	0	12	0	0
27			2.0	24	0	0	12	0	0	4	0	0
28			0	22	0	1	12	8	0	0	0	0
29			0	22		1	10	8	0	4	0	0
30			0	29		1	8	0	0	0	8	0
31		—	0	51	—	1	—	0	—	0	12	—
Mean	0	0	15.4	34	285	281	7	5	5	3	2	0
Ac-Ft	0	0	946	2110	15850	17300	410	280	295	212	125	12

Maximum Discharge C.F.S. For Water Year 2,530 March 5, 1957; Year of Record 8,200 June 5, 1952

Total Discharge Ac.-Ft. For 56-Calendar Year 677300; 56-57 Water Year 37540

Station located 800 feet below the head of Temple Slough, Mile 186.0L above mouth. Drainage area is approximately 5,630 square miles. Period of record October 1940 to date. Records computed by U. S. Bureau of Reclamation.

TABLE 126

FRESNO RIVER NEAR DAULTON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	6.4	32	13	15	28	151	80	93	125	34	6.4	
2	5.5	22	13	13	28	159	74	95	123	30	5.5	
3	5.5	15	13	13	30	146	74	99	120	28	4.2	
4	6.4	13	13	13	28	128	78	99	116	30	3.0	
5	6.4	13	16	13	22	125	78	102	111	24	1.9	
6	10	10	32	15	22	153	78	102	106	20	1.3	
7	15	10	32	15	22	135	76	99	95	26	.9	
8	10	8.6	26	16	28	118	69	99	93	28	.7	
9	7.4	7.4	24	16	44	135	74	102	97	26	.6	
10	5.5	8.6	22	18	42	202	74	91	106	24	.4	
11	4.2	10	22	16	40	135	74	102	95	20	.2	
12	3.7	10	20	16	46	118	74	113	86	16	.1	
13	3.7	10	20	20	46	143	65	97	82	15	0	N
14	4.2	10	20	59	46	113	69	99	82	12	0	O
15	4.2	12	22	46	42	102	80	111	82	15	0	
16	4.2	12	22	34	36	133	78	97	82	18	0	
17	4.8	10	22	26	36	130	74	95	78	20	0	F
18	4.8	12	22	26	34	108	253	101	67	16	0	L
19	4.8	12	22	22	30	91	162	689	65	13	0	O
20	5.5	12	22	30	24	88	118	360	61	12	0	W
21	6.4	12	22	44	28	88	118	290	55	12	0	
22	5.5	12	20	40	28	84	106	240	59	13	0	
23	7.4	12	20	32	59	78	104	214	52	12	0	
24	13	10	18	28	173	74	106	190	50	12	0	
25	16	10	18	24	275	71	108	167	46	12	0	
26	13	12	18	28	190	76	106	151	42	10	0	
27	12	13	20	34	138	76	102	146	40	8.6	0	
28	13	13	18	26	123	74	97	138	40	8.6	0	
29	13	13	18	30		76	93	135	38	7.4	0	
30	12	13	18	28		88	97	133	36	7.4	0	
31	16	—	15	26	—	84	—	130	—	6.4	0	—
Mean	8.05	12.3	20.1	25.2	60.3	112	94.6	154	77.7	17.3	0.81	0
Ac-Ft	495	733	1240	1550	3350	6910	5630	9480	4620	1060	50	0

Maximum Discharge C.F.S. For Water Year 1,360 May 19, 1957; Year of Record 7,500 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 104700; 56-57 Water Year 35120

Station located 5.5 miles southeast of Daulton. Drainage area is 270 square miles. Fresno River is an east-side tributary to the San Joaquin River at Mile 134.0R above mouth. Period of record October 1941 to date. Records computed by U. S. Geological Survey.

TABLE 127

CHOWCHILLA RIVER AT BUCHANAN DAM SITE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	0	14	6.8	8.2	14	141	34	28	41	2.8		
2	0	10	6.8	8.2	14	175	32	27	37	2.5		
3	0	8.5	6.8	8.2	14	132	30	24	32	2.1		
4	0	7.2	7.0	8.5	14	94	28	23	30	1.8		
5	0	6.8	9.2	8.8	14	99	27	22	27	1.6		
6	0	6.5	20	8.8	13	138	27	20	23	1.2		
7	.2	6.5	21	8.8	14	98	26	20	22	1.2		
8	.6	6.5	14	8.8	18	77	24	20	20	.9		
9	1.7	6.2	11	9.2	32	104	23	21	20	.7		
10	1.7	6.2	10	9.8	27	180	23	22	22	.6		
11	1.8	6.0	9.8	9.5	23	99	22	25	24	.5		
12	1.6	5.8	9.8	10	30	81	22	31	21	.3	N	N
13	1.6	5.8	9.8	19	27	103	21	35	18	.3	O	O
14	1.8	5.8	9.8	50	24	77	22	45	16	.2		
15	1.8	5.8	9.5	30	21	67	24	44	15	.2		
16	1.8	5.8	9.5	19	19	161	24	38	14	.1		
17	1.8	6.2	9.2	15	17	129	27	29	13	.1	F	F
18	1.7	6.2	9.2	14	16	93	152	30	12	O	L	L
19	1.7	6.5	8.8	13	16	79	112	576	11	O	O	O
20	1.7	6.5	8.5	19	15	67	67	298	9.5	O	W	W
21	1.7	6.5	8.5	30	16	59	65	243	8.5	O		
22	1.8	6.8	8.5	25	18	54	57	177	7.8	O		
23	2.9	6.8	8.5	19	36	50	53	159	7.2	O		
24	3.6	6.8	8.5	16	290	47	47	130	6.5	O		
25	3.9	6.5	8.2	15	600	45	42	99	5.8	O		
26	5.5	6.5	8.2	20	168	42	39	82	4.8	O		
27	4.8	6.8	8.5	23	97	40	35	71	4.1	O		
28	4.8	6.8	8.2	17	73	39	33	61	3.9	O		
29	4.8	6.8	8.2	16		37	30	54	3.2	O		
30	6.2	6.8	8.5	14		37	28	50	3.1	O		
31	9.2	—	8.5	14	—	36	—	47	—	O		—
Mean	2.28	6.86	9.64	16.0	60.0	86.5	39.9	82.3	16.1	0.55	0	0
Ac-Ft	140	408	593	981	3330	5320	2370	5060	957	34	0	0

Maximum Discharge C.F.S. For Water Year 1,230 May 19, 1957; Year of Record 30,000 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 72890; 56-57 Water Year 19190

Station located 4.3 miles west of Raymond. Drainage area is 238 square miles. Chowchilla River is an east-side tributary to the San Joaquin River at Mile 151.OR above mouth. Period of record October 1921 to September 1923; October 1930 to date. Records computed by U. S. Geological Survey.

TABLE 128

SALT SLOUGH NEAR LOS BANOS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	98	42	36	28	82	112	172	82	78	117	108	106
2	86	40	33	23	79	116	175	86	82	111	117	94
3	67	40	32	15	76	99	163	94	84	97	132	70
4	65	44	30	15	74	86	154	99	84	98	122	87
5	62	43	30	19	73	90	158	87	79	101	118	128
6	56	41	30	24	71	100	156	88	83	102	119	93
7	54	40	30	70	70	97	159	87	100	101	130	80
8	49	36	29	79	70	66	159	79	101	112	131	83
9	47	38	28	84	73	70	161	60	99	112	132	86
10	45	38	27	86	73	79	148	78	108	114	139	82
11	36	41	26	90	78	80	141	82	100	119	148	84
12	30	42	23	93	121	84	137	80	92	119	150	75
13	30	42	22	96	161	92	136	79	75	114	137	73
14	30	41	21	95	133	106	142	86	68	116	123	115
15	33	45	13	89	133	116	129	88	77	118	121	100
16	33	45	17	82	149	118	126	77	77	108	96	96
17	34	45	16	79	156	119	137	83	79	100	112	85
18	34	42	15	78	133	121	160	90	92	110	115	90
19	35	43	11	78	104	122	150	102	88	100	121	101
20	31	50	19	78	108	122	140	117	87	106	131	97
21	31	42	27	79	97	121	130	128	94	108	122	90
22	32	41	22	84	93	127	114	114	89	114	119	84
23	34	43	21	83	94	137	95	94	84	111	116	80
24	34	43	27	80	97	145	88	88	88	115	110	88
25	37	43	27	84	102	149	88	88	92	124	122	85
26	42	41	23	89	95	145	84	85	95	127	111	90
27	41	39	23	89	92	150	83	77	111	118	114	105
28	40	38	24	88	97	158	79	76	114	96	128	97
29	52	38	28	85		176	73	83	109	86	124	104
30	51	38	28	83		178	80	82	106	133	106	136
31	46	—	28	83	—	171	—	80	—	130	111	—
Mean	45.0	41.5	24.7	71.9	99.4	118	131	87.7	90.4	111	124	
Ac-Ft	2770	2470	1520	4420	5520	7240	7770	5390	5380	6[illegible]	7510	[illegible]

Maximum Discharge C.F.S. For Water Year 180 March 30, 1957; Year of Record 1,440 June 4, 1952

Total Discharge Ac.-Ft. For 56-Calendar Year 11940[illegible]; 56-57 Water Year 6[illegible]

Station located at San Luis Ranch, 7 miles north of Los Banos. Salt Slough is an overflow channel of the San Joaquin River. Period of record December 1940 to date. Records computed by U. S. Geological Survey.

TABLE 129

MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1				0	6	52	5	4	4			
2				0	6	103	5	4	4			
3				0	6	56	5	5	3			
4				0	5	30	6	5	3			
5					5	23	6	4	3			
6				0	5	50	5	4	3			
7				0	5	52	5	4	3			
8				0	5	32	5	4	3			
9				0	5	26	5	4	3			
10				0	5	35	5	4	3			
11				0	6	25	4	4	3			
12	N	N	N	0	7	18	4	4	2	N	N	N
13	O	O	O	0	7	16	4	4	2	O	O	O
14				0	8	17	4	4	2			
15				0	8	15	4	4	2			
16				0	8	13	4	4	2			
17	F	F	F	0	8	19	4	4	2	F	F	F
18	L	L	L	0	8	17	4	4	2	L	L	L
19	O	O	O	0	8	13	32	90	1	O	O	O
20	W	W	W	0	8	11	17	106	0	W	W	W
21				0	8	10	9	67	0			
22				0	8	9	8	108	0			
23				1	9	8	7	77	0			
24				8	37	8	7	40	0			
25				7	214	7	6	18	0			
26				7	125	6	6	10	0			
27				8	40	6	6	8	0			
28				8	26	6	5	6	0			
29				8		6	5	6	0			
30				7		6	4	5				
31		—		6	—	6	—	4	—			—
Mean	0	0	0	1.94	21.3	22.6	6.5	20	1.7	0	0	0
Ac-Ft	0	0	0	119	1182	1388	389	1228	99	0	0	0

Maximum Discharge C.F.S. For	Water Year	273 February 25, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	
	Year of Record	6,020 December 24, 1955		56-57 Water Year	4405

Station located 1.5 miles below Mariposa Dam. Drainage area is 108 square miles. Mariposa Creek is an east-side tributary, via Bear Creek, to the San Joaquin River between Dos Palos and Fremont Ford. Period of record November 1952 to date. Records computed by U. S. Corps of Engineers.

TABLE 130

OWENS CREEK BELOW OWENS RESERVOIR

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	1	1	1	1	1	18	1	2				
2	1	1	1	1	1	11	1	1				
3	1	1	1	1	1	5	1	1				
4	1	1	1	1	1	4	.3	1				
5	1	1	1	1	1	5	.3	1				
6	1	1	1	1	1	10	.5	1				
7	1	1	1	1	1	5	.3	1				
8	1	1	1	1	1	4	.4	1				
9	1	1	1	1	1	5	.4	2				
10	1	1	1	1	1	13	.4	2				
11	1	1	1	1	1	6	.7	2				
12	1	1	1	2	1	4	.9	2				
13	1	1	1	4	1	4	.9	2	N	N	N	N
14	1	1	1	5	1	3	1	2	O	O	O	O
15	1	1	1	3	1	3	2	2				
16	1	1	1	2	1	3	2	2				
17	1	1	1	2	1	4	6	1	F	F	F	F
18	1	1	1	2	1	3	17	2	L	L	L	L
19	1	1	1	1	1	2	16	23	O	O	O	O
20	1	1	1	3	1	2	9	12	W	W	W	W
21	1	1	1	5	1	1	6	7				
22	1	1	1	3	1	1	4	8				
23	1	1	1	2	3	1	3	4				
24	1	1	1	2	5	1	3	2				
25	1	1	1	2	10	1	3	2				
26	1	1	1	3	6	1	3	1				
27	1	1	1	3	3	1	2	0				
28	1	1	1	2	4	1	2	0				
29	1	1	1	2		1	2	0				
30	1	1	1	2		1	2	0				
31	1	—	1	1	—	1	—	0	—			—
Mean	1	1	1	2.0	1.89	4.0	3.04	2.8	0	0	0	0
Ac-Ft	61	59	61	123	105	248	181	174	0	0	0	0

Maximum Discharge C.F.S. For	Water Year	36 May 19, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	6186
	Year of Record	590 December 24, 1955		56-57 Water Year	1012

Station located 0.25 mile below dam. Drainage area is 25.6 square miles. Owens Creek is an east-side tributary, via Mariposa Creek and Bear Creek, to the San Joaquin River between Dos Palos and Fremont Ford Bridge. Period of record February 1950 to date. Records computed by U. S. Corps of Engineers.

TABLE 131

BEAR CREEK BELOW BEAR RESERVOIR

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1			0	5	6	104	6	6	6	4		
2			0	5	6	95	6	6	5	4		
3			0	5	6	42	6	5	5	4		
4			0	5	6	30	6	5	5	4		
5			0	5	6	65	6	5	4	4		
6			0	5	6	155	6	5	4	4		
7			0	5	6	71	6	5	4	4		
8			0	5	6	36	6	5	4	4		
9			0	5	6	41	6	5	4	3		
10			0	5	6	76	6	5	4	3		
11			0	5	6	39	5	5	4	3		
12			0	6	6	30	5	5	4	3		
13	N	N	0	6	6	30	5	5	4	3	N	N
14	O	O	0	8	6	25	6	5	4	3	O	O
15			0	8	6	21	6	5	4	3		
16			0	7	6	26	6	5	4	3		
17	F	F	0	7	6	36	6	5	3	2	F	F
18	L	L	0	6	6	28	9	6	3	2	L	L
19	O	O	0	6	6	22	24	78	3	2	O	O
20	W	W	2	6	6	18	20	70	3	2	W	W
21			3	10	6	15	12	99	3	2		
22			5	11	6	13	11	76	3	2		
23			6	7	7	11	10	33	3	2		
24			6	8	30	10	9	21	3	1		
25			6	7	336	9	8	15	3	1		
26			5	8	76	9	7	12	3	1		
27			5	9	33	8	7	9	3	0		
28			5	8	24	7	6	6	3	0		
29			5	7		7	6	7	3	0		
30			5	7		7	6	6	3	0		
31		—	5	6	—	7	—	6	—	0		—
Mean	0	0	1.87	6.6	22.8	35.3	7.8	17.2	3.7	2.4	0	
Ac-Ft	0	0	115	402	1265	2164	464	1057	220	145	0	0

Maximum Discharge C.F.S. For Water Year 527 February 25, 1957
Year of Record 4,460 December 24, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year
56-57 Water Year 5832

Station located at out-rating box of dam. Bear Creek is an east-side tributary to the San Joaquin River between Dos Palos and Fremont Ford Bridge. Period of record January 1955 to date. Records computed by U. S. Corps of Engineers.

TABLE 132

BURNS CREEK BELOW BURNS RESERVOIR

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1					0	21	1	0				
2					0	22	1	0				
3					0	9	1	0				
4					0	5	1	0				
5					0	34	1	0				
6					0	84	1	0				
7					0	27	0	0				
8					0	15	0	0				
9					0	13	0	0				
10					0	15	0	0				
11					0	10	0	0				
12					0	8	0	0				
13	N	N	N	N	0	7	0	0	N	N	N	N
14	O	O	O	O	0	7	0	0	O	O	O	O
15					0	6	0	0				
16					0	6	0	0				
17	F	F	F	F	0	13	0	0	F	F	F	F
18	L	L	L	L	0	8	1	0	L	L	L	L
19	O	O	O	O	0	6	1	0.5	O	O	O	O
20	W	W	W	W	0	5	1	0.2	W	W	W	W
21					0	3	1	0				
22					0	2	1	0				
23					0	2	1	0.1				
24					2	2	1	1				
25					18	1	1	0.8				
26					1	1	1	0.5				
27					0	1	1	0.3				
28					7	1	1	0				
29						1	1	0				
30						1	1	0				
31		—			—	1	—	0	—			—
Mean	0	0	0		1	10.8	0.6	1.1	0	0	0	0
Ac-Ft	0	0	0	0	56	667	38	67	0			

Maximum Discharge C.F.S. For Water Year 175 March 5, 1957
Year of Record 2,590 December 24, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 145.0
56-57 Water Year

Station located 0.5 mile below Burns Dam. Drainage area is 73.8 square miles. Burns Creek is an east-side tributary, via Bear Creek, to the San Joaquin River between Dos Palos and Fremont Ford Bridge. Period of record April 1950 to date. Records computed by U. S. Corps of Engineers.

TABLE 133

SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	204	75	62	74	166	344	296	261	242	184	153	174
2	220	66	60	75	164	361	303	245	240	190	147	174
3	196	55	58	75	171	389	303	237	240	186	151	167
4	162	56	63	68	171	695	292	232	240	180	158	140
5	149	62	65	66	166	1520	279	237	240	167	161	168
6	144	58	74	71	151	1890	275	218	240	173	158	176
7	146	58	71	78	142	1950	255	192	240	170	172	140
8	153	56	75	149	166	1390	243	184	260	173	179	146
9	158	51	75	188	249	777	239	184	270	173	174	147
10	151	53	66	186	291	538	226	168	280	170	172	137
11	171	67	67	190	627	435	214	170	280	157	168	127
12	151	71	68	258	1240	391	196	178	280	158	179	126
13	155	71	65	315	1560	371	194	196	277	157	200	119
14	194	66	65	302	1490	346	197	208	269	151	197	119
15	169	68	68	275	803	328	223	223	261	161	180	147
16	160	66	59	251	444	321	216	256	275	167	178	161
17	164	61	58	224	352	316	245	279	279	166	173	155
18	196	52	58	208	312	303	330	280	263	158	178	148
19	266	51	58	198	269	299	437	319	258	160	173	154
20	302	52	58	196	234	294	528	449	221	154	188	167
21	238	52	59	198	220	292	542	609	214	141	196	172
22	188	52	66	196	206	290	540	735	198	139	184	151
23	133	50	62	190	200	287	502	784	189	143	173	137
24	85	53	60	182	200	285	505	872	204	133	162	130
25	89	47	66	178	206	289	512	830	204	143	150	125
26	99	51	70	190	220	285	488	735	198	151	154	118
27	106	53	74	194	283	277	465	576	186	154	158	119
28	85	50	74	192	326	274	415	475	200	150	168	130
29	98	54	75	184		274	370	391	202	146	176	139
30	92	62	75	178		272	325	305	186	144	176	148
31	82	—	74	169	—	279	—	253	—	158	176	—
Mean	158	58.0	66.1	177	394	528	338	364	238	160	171	145
Ac-Ft	9730	3450	4060	10900	21880	32450	20140	22380	14150	9830	10540	8650

Maximum Discharge C.F.S. For	Water Year	1,990 March 7, 1957	Total Discharge Ac.-Ft. For 56-Calendar Year 782600
	Year of Record	4,470 March 25, 1952	56-57 Water Year 168200

Station located at Mile 129.5L above mouth, 5.7 miles above confluence of the Merced River. Drainage area is approximately 8,090 square miles. Period of record February 1937 to date. Records computed by U. S. Geological Survey.

TABLE 134

MERCED RIVER AT EXCHEQUER

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	1010	35	37	38	37	39	1470	1570	4880	1950	1780	1310
2	1030	35	37	38	37	36	1560	1580	5610	1900	1780	1310
3	1040	34	37	38	37	35	1560	1590	5610	1880	1780	1320
4	1020	34	38	38	40	36	1550	1590	5620	1880	1770	1330
5	1030	36	38	38	47	50	1630	1590	5480	1870	1740	1330
6	1030	39	38	38	45	598	1790	1600	4670	1850	1730	1370
7	1020	38	38	38	44	624	1780	1600	3880	1840	1700	1380
8	1020	37	38	38	48	625	1780	1620	4390	1850	1670	1330
9	1020	37	38	39	39	627	1780	1620	3830	1860	1660	1330
10	1060	36	38	38	39	616	1780	1620	3110	1880	1670	1360
11	1080	36	38	38	42	658	1780	1620	2690	1920	1640	1360
12	1060	37	38	38	35	640	1740	1620	2640	1940	1600	1350
13	1040	37	38	39	54	643	1720	1620	2720	1920	1590	1290
14	646	37	38	38	36	629	1640	1620	2740	1900	1600	1280
15	642	38	38	37	39	658	1560	1620	2530	1880	1640	1280
16	38	38	39	37	38	629	1560	1610	2260	1900	1620	1280
17	32	38	39	37	38	630	1560	1610	2110	1930	1590	1230
18	35	38	39	37	47	644	1560	1620	2090	1940	1610	1190
19	35	38	39	37	36	628	1560	1560	2140	1870	1650	1170
20	35	38	39	38	38	639	1560	1540	2190	1850	1660	1170
21	36	38	39	37	37	640	1560	1590	2150	1860	1660	1140
22	35	38	39	37	39	640	1560	1600	2060	1860	1660	1140
23	36	38	39	37	36	670	1560	1630	1960	1840	1600	1170
24	36	38	38	37	33	671	1560	1620	1940	1800	1520	1220
25	36	38	38	39	33	670	1560	1580	1940	1790	1480	1210
26	35	38	38	42	32	670	1560	1590	1950	1790	1460	1220
27	35	38	38	42	32	906	1560	1570	1940	1780	1450	1220
28	34	38	38	42	34	930	1560	1540	1940	1770	1470	1220
29	34	38	38	42		826	1570	2180	1940	1790	1460	1220
30	35	38	38	38		960	1570	3140	1950	1820	1410	1200
31	35	—	38	36	—	1090	—	4130	—	1790	1360	—
Mean	494	37.2	38.2	38.3	39.0	592	1618	1748	3032	1861	1613	1264
Ac-Ft	30370	2210	2350	2350	2170	36410	96280	107500	180400	114400	99190	75230

Maximum Discharge C.F.S. For	Water Year	5,890 June 2, 1957	Total Discharge Ac.-Ft. For 56-Calendar Year 1430000
	Year of Record	46,200 December 4, 1950	56-57 Water Year 748900

Station located 0.65 mile below Lake McClure. Drainage area is 1,029 square miles. Period of record November 1915 to date. (Prior records available at a site 1.0 mile upstream.) Records computed by U. S. Geological Survey.

TABLE 135

MERCED RIVER BELOW SNELLING

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	3.4	4.4	3.1	6.8	4.5	13	43	119	3020	40	20	5.9
2	3.4	3.4	3.1	5.2	4.2	22	121	101	3690	45	21	3.6
3	3.4	2.6	3.1	3.7	3.9	20	73	105	3930	44	18	*3.4
4	3.7	2.1	3.4	3.1	3.9	14	127	101	3940	41	17	*3.7
5	5.9	2.6	4.7	3.0	3.6	14	82	90	3790	42	26	*4.0
6	10	2.6	5.1	3.5	5.1	186	67	82	3310	41	31	*3.7
7	9.7	2.6	3.9	3.5	5.7	363	64	55	2100	25	26	2.5
8	7.8	2.6	4.2	5.2	5.7	357	62	27	2440	19	19	4.6
9	8.2	2.4	4.4	6.2	6.0	366	62	24	2340	9.7	22	15
10	5.9	2.4	5.1	4.1	5.5	359	60	18	1610	8.7	26	29
11	11	18	*4.2	3.3	4.7	348	58	21	810	4.2	29	40
12	14	36	*5.1	3.8	4.4	342	45	46	865	17	31	45
13	12	37	*5.9	6.8	4.3	336	45	55	898	26	36	51
14	12	32	*6.3	5.3	5.2	340	48	97	875	11	33	64
15	27	12	*7.0	4.0	5.1	343	57	150	728	7.6	29	69
16	31	4.2	*7.8	3.4	4.1	347	105	141	491	4.0	30	84
17	16	3.7	*8.2	3.1	3.7	342	196	141	330	19	57	78
18	4.4	3.1	7.8	3.1	3.4	346	407	170	247	49	43	50
19	3.4	2.6	7.8	3.1	3.3	341	341	232	255	73	26	66
20	2.9	2.6	7.8	4.8	3.5	336	309	232	300	47	43	73
21	2.6	2.4	7.8	7.0	3.7	335	274	259	292	37	46	75
22	2.6	2.4	7.8	4.4	3.6	326	235	263	243	38	53	69
23	2.6	2.4	8.2	4.1	66	293	255	276	161	49	54	59
24	2.4	2.4	7.8	3.5	32	225	267	280	102	46	60	49
25	2.1	2.9	7.4	3.8	87	177	280	255	80	29	72	42
26	2.1	2.6	7.4	5.0	24	133	236	232	*58	21	39	46
27	2.4	2.6	7.4	5.0	14	82	180	210	*41	21	24	50
28	2.1	2.6	7.4	4.3	11	73	174	183	*42	34	19	49
29	2.4	2.6	7.8	5.6		57	168	263	*43	30	28	60
30	2.6	2.9	7.0	5.9		47	160	844	*48	20	17	80
31	2.9	—	7.0	5.9	—	43	—	1460	—	18	9.7	—
Mean	7.2	6.8	6.2	4.5	11.8	223	153	311	1236	29.6	32.4	42.5
Ac-Ft	440	406	379	277	657	13740	9126	12960	73540	1817	1993	2528

Maximum Discharge C.F.S. For	Water Year		Total Discharge Ac.-Ft. For	56-Calendar Year	840000
	Year of Record	26,000 December 4, 1950		56-57 Water Year	117900

Station located at Merced-Snelling highway bridge, Mile 42.1 above mouth. Period of record June 1930 to October 1938 (low-water periods only); January 1939 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 136

MERCED RIVER AT CRESSEY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	91	92	81	82	90	161	129	177	2920	91	64	83
2	94	92	84	81	89	230	139	147	3420	89	62	84
3	95	96	86	81	89	178	174	137	4070	85	61	69
4	100	95	89	79	90	150	148	131	4060	79	61	62
5	96	92	90	75	90	174	205	129	3970	72	61	58
6	98	94	95	76	89	421	155	121	3620	67	63	56
7	107	95	95	77	89	602	138	104	2740	65	64	59
8	107	92	92	78	94	694	135	95	2280	63	65	68
9	107	89	87	83	94	709	132	85	2680	63	67	66
10	110	89	86	85	93	735	131	82	2030	60	57	64
11	112	90	86	83	94	736	130	81	1270	58	61	63
12	116	103	86	83	94	719	130	83	988	56	73	71
13	120	122	85	95	94	710	120	90	955	54	66	76
14	118	118	85	96	94	704	124	94	978	52	64	79
15	120	118	86	95	94	709	125	120	941	55	61	88
16	122	107	86	89	98	710	133	149	730	57	58	94
17	128	95	85	86	91	703	169	143	485	56	57	101
18	126	90	85	85	88	697	519	155	331	54	75	107
19	109	89	81	84	92	697	782	235	285	52	73	101
20	99	86	81	87	90	698	720	320	317	55	74	107
21	95	91	82	96	95	691	719	351	361	60	70	112
22	91	87	81	96	99	675	544	403	304	64	75	111
23	90	86	81	94	108	679	498	413	225	67	83	112
24	91	85	85	92	241	506	483	434	172	68	80	104
25	90	86	82	89	342	352	462	395	145	70	81	101
26	90	85	84	95	257	269	441	352	123	71	83	102
27	91	80	84	94	161	204	299	271	106	69	78	108
28	91	80	82	92	141	169	243	239	97	71	74	116
29	90	85	81	91		155	227	175	92	70	78	128
30	90	87	81	91		143	215	704	86	70	80	137
31	92	—	80	91	—	133	—	1650	—	67	83	—
Mean	102	93.2	85.0	87.1	117	488	286	361	1359	65.5	69.4	89.6
Ac-Ft	6300	5546	5224	5357	6506	29980	17000	18000	80890	4026	4268	5330

Maximum Discharge C.F.S. For	Water Year	4,170 June 4, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	932800
	Year of Record	34,400 December 4, 1950		56-57 Water Year	186400

Station located at Cressey Bridge, Mile 27.6 above mouth. Period of record July 1941 to date. Records computed by Department of Water Resources.

TABLE 137

MERCED RIVER NEAR STEVINSON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	257	161	141	158	176	236	247	391	1980	213	111	249
2	244	160	142	159	168	254	213	356	2860	223	106	252
3	233	160	145	160	165	301	235	301	3440	196	111	226
4	222	162	146	160	165	267	249	281	3650	216	128	196
5	221	159	151	159	165	242	242	279	3660	218	159	171
6	234	152	150	158	167	303	291	269	3590	179	150	162
7	249	153	158	156	165	420	275	251	3180	189	134	172
8	283	151	161	155	164	625	262	235	2460	211	122	199
9	273	150	159	155	163	682	247	228	2650	204	119	204
10	242	148	159	158	165	710	236	211	2480	163	132	187
11	250	148	158	161	168	733	226	202	1840	153	168	163
12	252	148	158	162	167	733	224	208	1300	148	156	150
13	236	153	156	168	166	728	210	223	1130	140	153	187
14	236	168	155	170	164	728	221	245	1100	162	145	200
15	258	171	156	171	163	728	266	281	1100	182	143	199
16	267	169	156	170	162	728	242	328	1030	158	149	221
17	269	162	158	167	163	733	256	354	848	144	145	240
18	224	154	158	164	160	723	362	384	660	139	154	254
19	213	152	155	164	158	720	658	441	532	130	163	275
20	183	149	154	167	156	720	811	525	496	140	160	251
21	164	144	154	167	158	710	829	615	511	150	171	258
22	169	149	155	170	160	708	811	658	508	173	167	236
23	162	151	156	173	167	715	728	678	492	160	173	226
24	160	144	158	170	172	685	688	708	404	159	176	223
25	160	144	160	169	275	585	675	705	326	144	171	218
26	159	146	160	171	367	489	662	675	273	138	180	223
27	159	142	158	174	311	418	632	618	233	138	189	219
28	161	140	159	175	264	358	523	501	230	166	182	252
29	162	143	158	175		358	460	464	196	164	190	260
30	160	141	156	175		291	420	414	194	127	207	299
31	163	—	154	175	—	273	—	1050	—	111	226	—
Mean	214	152	155	166	184	545	413	422	1445	166	156	219
Ac-Ft	13140	9070	9530	10190	10240	33530	24600	25940	85990	10190	9600	13040

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
	Water Year	3,700 June 5, 1957		56-Calendar Year	1037000
	Year of Record	13,600 December 5, 1950		56-57 Water Year	255100

Station located at Mile 4.6R above mouth. Also known as "Merced River below Stevinson Drain." Drainage area is 1,274 square miles. Merced River is an east-side tributary to the San Joaquin River at Mile 123.75R above mouth. Period of record October 1940 to date. (Prior records available at site 3.5 miles downstream.) Records computed by U. S. Geological Survey.

TABLE 138

SAN JOAQUIN RIVER NEAR NEWMAN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	512	266	243	248	449	813	572	673	1970	398	295	440
2	504	257	234	250	419	841	544	610	2920	410	270	443
3	480	245	230	250	410	917	547	550	3570	380	290	410
4	441	248	228	245	410	1020	550	522	3970	392	310	350
5	423	252	237	241	398	1780	530	512	4080	401	350	365
6	432	237	243	239	386	2640	547	491	4050	377	340	374
7	444	234	257	257	374	2680	508	440	3680	362	340	342
8	490	232	257	338	374	2400	474	416	3020	401	330	353
9	508	226	259	434	498	1800	467	404	2910	410	320	362
10	459	224	245	464	677	1480	449	380	2970	353	330	350
11	477	243	243	474	673	1380	428	362	2420	322	370	322
12	474	269	245	512	1290	1320	416	713	1800	315	370	300
13	459	279	245	606	1660	1280	404	401	1530	308	390	315
14	484	292	239	603	1840	1240	398	431	1450	318	383	330
15	487	297	245	575	1280	1200	458	491	1440	350	350	359
16	477	289	237	544	793	1200	449	398	1390	342	350	389
17	494	269	234	512	617	1200	470	634	1240	330	342	398
18	471	243	237	488	564	1170	645	638	998	322	356	395
19	526	239	234	470	522	1160	1020	733	837	308	368	425
20	540	226	230	470	470	1140	1380	917	749	310	374	416
21	465	230	232	464	455	1130	1410	1220	733	312	389	440
22	405	241	239	461	446	1120	1400	1400	729	338	374	410
23	351	248	243	458	452	1100	1290	1480	689	322	365	380
24	286	257	241	449	458	1070	1240	1580	642	320	359	374
25	276	259	245	446	554	966	1300	1590	564	305	348	368
26	281	264	250	461	673	863	1220	1490	488	310	353	359
27	297	257	254	467	757	769	1140	1300	422	312	368	353
28	276	248	257	467	797	689	998	1070	428	332	368	383
29	284	243	257	477		673	872	908	416	345	383	407
30	281	241	259	458		603	781	765	383	295	401	440
31	274	—	257	458	—	575	—	1120	—	295	422	—
Mean	421	252	244	461	668	1233	764	795	1750	342	353	378
Ac-Ft	25900	14990	14990	28340	37080	75810	45440	48870	104100	21010	21730	22520

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
	Water Year	4,120 June 5, 1957		56-Calendar Year	2190000
	Year of Record	13,000 March 7, 1938		56-57 Water Year	460800

Station located at Hills Ferry bridge, Mile 123.7 above mouth, 0.5 mile below confluence of the Merced River. Combine flow with Merced River Slough near Newman to give total flow passing this point. Drainage area is approximately 9,990 square miles. Period of record April 1912 to date. Records computed by U. S. Geological Survey.

TABLE 139

MERCED RIVER SLOUGH NEAR NEWMAN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12	N	N	N	N	N	N	N	N	N	N	N	N
13	O	O	O	O	O	O	O	O	O	O	O	O
14												
15												
16												
17	F	F	F	F	F	F	F	F	F	F	F	F
18	L	L	L	L	L	L	L	L	L	L	L	L
19	O	O	O	O	O	O	O	O	O	O	O	O
20	W	W	W	W	W	W	W	W	W	W	W	W
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31		—			=		—		—			—
Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac-Ft	0	0	0	0	0	0	0	0	0	0	0	0

Maximum Discharge C.F.S. For Water Year 0; Year of Record 6,410 December 5, 1950

Total Discharge Ac.-Ft. For 56-Calendar Year 86810; 56-57 Water Year 0

Station located 0.20 mile below head of slough between Merced and San Joaquin Rivers. Also known as "Merced River Slough near Hills Ferry Road Bridge." This station records the flow which at high stages in the Merced River bypasses the Hills Ferry Road Bridge and reaches the San Joaquin River at Mile 122.2R above mouth, 1.5 miles below Newman gaging station. Period of record October 1941 to date. Records computed by U. S. Geological Survey.

TABLE 140

ORESTIMBA CREEK NEAR NEWMAN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1					0	46		0				
2					0	27		0				
3					0	18		.1				
4					0	15		.1				
5					0	10		0				
6					0	7.8		0				
7					0	6.2		.1				
8					0	5.1		0				
9					0	5.1		0				
10					0	5.1		0				
11					0	3.7		0				
12					0	3.2		0				
13	N	N	N	N	0	2.3	N	0	N	N	N	N
14	O	O	O	O	0	1.5	O	0	O	O	O	O
15					0	1.1		0				
16					0	.9		0				
17	F	F	F	F	0	.8	F	0	F	F	F	F
18	L	L	L	L	0	.5	L	0	L	L	L	L
19	O	O	O	O	0	.3	O	0	O	O	O	O
20	W	W	W	W	0	.1	W	0	W	W	W	W
21					0	.1		0				
22					0	.1		0				
23					23	0		0				
24					205	0		0				
25					411	0		0				
26					79	0		0				
27					48	0		0				
28					30	0		0				
29						0		0				
30						0		0				
31		—			=	0	—	0	—			—
Mean	0	0	0	0	28.4	5.16	0	.01	0	0	0	0
Ac-Ft	0	0	0	0	1580	317	0	.6	0	0	0	0

Maximum Discharge C.F.S. For Water Year 1,440 February 24, 1957; Year of Record 5,620 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 11290; 56-57 Water Year 1900

Station located 5 miles west of Newman. Drainage area is 135 square miles. Orestimba Creek is a west-side tributary to the San Joaquin River at Mile 115L above mouth. Period of record January 1932 to date. Records computed by U. S. Geological Survey.

TABLE 141

SAN JOAQUIN RIVER AT GRAYSON (LAIRD SLOUGH)

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	746	485	441	435	660	980	735	850	1265	570	325	550
2	698	482	431	425	650	1000	650	770	1810	565	330	580
3	715	471	400	425	625	1025	585	710	2370	560	310	535
4	715	466	417	410	595	1070	600	660	2735	525	330	530
5	676	466	453	410	595	1220	520	660	2980	550	410	500
6	695	463	458	435	590	1790	485	715	3120	530	425	500
7	755	443	458	425	580	2190	500	675	3150	525	445	475
8	764	443	477	385	575	2260	495	630	3000	540	450	490
9	746	441	463	535	580	2275	475	600	2775	545	455	495
10	732	424	446	600	745	1765	450	585	2930	510	460	490
11	706	419	436	635	775	1575	445	580	2655	460	460	510
12	715	436	446	660	875	1490	435	625	2130	390	470	525
13	704	455	443	730	1260	1450	405	660	1750	400	400	510
14	718	460	443	755	1420	1420	505	585	1560	465	395	465
15	764	477	431	735	1605	1380	670	655	1465	460	405	490
16	776	482	431	730	1250	1360	580	710	1455	415	355	530
17	740	480	424	710	950	1355	550	780	1450	415	390	540
18	690	458	438	680	820	1335	470	830	1320	385	460	580
19	656	431	455	655	740	1325	305	945	1125	345	500	545
20	662	421	455	650	685	1325	1230	1095	990	355	395	560
21	662	424	474	650	640	1380	1490	1345	910	400	425	575
22	622	455	474	645	625	1375	1570	1420	915	485	435	610
23	600	443	460	650	650	1420	1500	1655	885	455	415	610
24	550	443	441	655	720	1405	1405	1665	865	385	485	535
25	513	455	436	645	880	1315	1350	1700	760	340	475	510
26	496	453	431	660	985	1160	1305	1665	695	320	505	530
27	504	463	421	660	900	1030	1085	1435	630	320	415	565
28	522	466	436	660	930	930	1135	1320	575	390	445	615
29	519	450	448	660		860	1025	1130	565	460	440	630
30	499	443	443	660		830	930	1020	570	415	490	690
31	491	—	446	655	—	765	—	935	—	350	495	—
Mean	656	453	444	601	818	1357	796	955	1647	446	426	542
Ac-Ft	40366	26971	27285	36942	45431	83425	47375	58731	97993	27431	26172	32271

Maximum Discharge C.F.S. For Water Year — Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 2238000; 56-57 Water Year 550400

Station located at Laird Slough bridge, Mile 96.05 above mouth, 5 miles above confluence of the Tuolumne River. High flows bypassing this station through old channel of San Joaquin River are included in this table. Period of record 1931 to date. Records computed by the City of San Francisco.

TABLE 142

TUOLUMNE RIVER ABOVE LA GRANGE DAM NEAR LA GRANGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	1410	1390	1470	870	721	636	2300	2020	2240	3120	2250	2250
2	1420	1490	1080	1400	543	434	2320	2010	2250	3130	2240	2250
3	1350	1160	1660	1280	337	298	2330	2020	2230	3130	2240	2270
4	1270	786	1900	1400	732	768	2380	2010	2770	3130	2240	2280
5	1280	1230	1730	1070	717	710	2360	2020	3200	3120	2230	2300
6	1120	1460	1730	757	783	633	2390	2010	4040	3130	2230	2310
7	807	1510	1740	1150	796	548	2380	2000	5310	3130	2240	2310
8	1110	1410	1400	876	646	622	2340	2010	7130	3110	2230	2320
9	1070	1510	977	816	546	674	2390	1990	7380	3140	2230	2300
10	1100	1560	1550	751	327	376	2450	1990	4730	3130	2230	2100
11	999	1180	1470	836	664	648	2460	2010	3140	3130	2230	2110
12	1000	1630	1290	568	606	699	2440	2010	3110	3140	2220	2110
13	812	1820	1390	214	540	671	2450	2040	3110	3150	2230	2090
14	446	1920	1520	530	530	624	2400	2040	3090	3150	2230	1900
15	963	1860	1380	620	609	827	2380	2040	2530	2570	2220	1970
16	925	1850	994	622	371	642	2430	2030	2200	2270	2200	1960
17	851	1680	1800	650	288	451	2430	2030	2220	2270	2220	1940
18	824	1320	1840	842	613	1690	2430	2030	2220	2280	2220	1950
19	780	1780	1840	607	624	1600	2400	2010	2220	2260	2230	1970
20	635	1950	1950	363	688	3000	2420	1980	2210	2260	2230	1940
21	290	2060	1920	788	691	3040	2430	2000	2190	2260	2230	1980
22	794	1440	1600	810	413	3090	2350	2050	2180	2260	2210	1990
23	921	1830	1180	857	358	3110	1780	2000	2190	2270	2220	2000
24	901	1760	1530	810	176	3030	2270	2000	2180	2270	2220	2050
25	799	1430	926	932	508	2520	2180	2000	2830	2260	2200	1980
26	851	1930	1550	762	650	2280	2100	2000	3130	2250	2210	1720
27	633	1750	1620	536	610	2210	2030	2000	3120	2260	2220	1720
28	391	1690	1680	744	568	2300	2030	2050	3120	2250	2230	1680
29	893	1660	1500	941		2300	2000	2290	3130	2260	2250	1230
30	1070	1700	1170	776		2300	2020	2270	3130	2240	2250	1400
31	889	—	1680	753	—	2300	—	2220	—	2240	2250	—
Mean	923	1592	1518	804	559	1453	2302	2038	3151	2664	2228	2013
Ac-Ft	56740	94700	93360	49450	31050	89320	137000	125300	187500	163800	137000	119800

Maximum Discharge C.F.S. For Water Year 7,520 June 8, 1957; Year of Record 61,000 December 8, 1950

Total Discharge Ac.-Ft. For 56-Calendar Year 2622000; 56-57 Water Year 1285000

Station located 0.5 mile below Don Pedro Dam, 3.5 miles above La Grange Dam. Drainage area is 1,540 square miles. Period of record March 1915 to date. (Prior records available at a site 3.5 miles downstream.) Records computed by U. S. Geological Survey.

TABLE 143

TUOLUMNE RIVER AT LA GRANGE BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	386	627	1470	639	621	221	258	19	9.2	20	19	18
2	348	599	1060	1030	476	372	28	19	8.6	23	19	18
3	348	588	1660	893	359	284	20	17	8.0	23	19	18
4	391	588	1850	987	486	586	20	16	242	23	18	18
5	438	627	1710	724	578	652	18	16	516	22	18	18
6	443	610	1750	653	578	557	18	16	1030	23	18	18
7	448	610	1800	825	578	531	18	17	2100	22	18	18
8	416	621	1400	674	573	476	16	16	3990	23	18	19
9	455	621	995	794	467	47	17	16	4360	24	18	19
10	458	621	1540	634	309	20	17	15	1640	24	17	19
11	453	594	1490	777	476	322	17	15	68	24	17	19
12	456	621	1320	568	521	598	17	14	19	24	18	19
13	457	662	1430	286	542	629	17	14	21	26	17	19
14	170	645	1500	432	402	568	17	14	50	24	17	19
15	422	633	1380	573	486	720	17	81	57	22	17	23
16	510	627	999	573	367	578	17	15	18	21	17	23
17	491	639	1820	578	241	531	18	12	17	21	17	20
18	472	621	1830	656	435	1430	17	13	16	21	17	19
19	472	1120	1800	573	309	1500	16	13	16	20	18	20
20	434	1980	1970	389	21	2820	19	12	15	20	18	20
21	215	2040	1910	462	19	2540	20	314	15	20	18	20
22	491	1460	1580	679	17	2350	21	708	15	21	18	21
23	562	1790	1120	583	20	1910	328	833	14	21	18	20
24	536	1750	1250	588	15	1710	557	764	15	20	18	21
25	624	1410	650	645	39	1100	557	691	16	19	19	22
26	526	1910	1070	578	108	568	568	562	17	19	19	22
27	472	1720	1140	367	28	568	42	536	16	19	19	24
28	274	1690	1270	500	10	562	19	521	17	19	19	27
29	516	1610	1060	578		552	19	22	18	19	19	22
30	526	1720	771	668		568	20	9.8	18	19	19	23
31	516	—	1120	578	—	568	—	9.2	—	19	19	—
Mean	443	1045	1410	629	324	853	91.8	172	479	21.5	18.1	20.2
Ac-Ft	27220	62190	86710	38650	18010	52440	5460	10590	28490	1319	1111	1202

Maximum Discharge C.F.S. For Water Year 4,520 June 9, 1957
Year of Record 48,200 December 8, 1950

Total Discharge Ac.-Ft. For 56-Calendar Year 1585000
56-57 Water Year 333400

Station located at Mile 50.5 above mouth. Period of record January 1937 to date. Records computed by Department of Water Resources.

TABLE 144

TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	433	596	1590	872	610	96	494	53	35	41	41	47
2	415	638	1260	916	648	410	105	58	39	41	41	43
3	421	616	1600	1000	401	356	80	58	35	45	41	41
4	409	596	1940	1050	461	463	72	58	68	45	43	41
5	493	610	1820	814	617	770	60	56	554	45	47	41
6	509	623	1790	724	610	695	58	56	751	43	41	45
7	551	623	1890	874	610	591	58	58	1980	39	41	45
8	434	630	1500	728	610	475	58	60	3510	39	43	45
9	502	623	1180	743	561	338	60	60	4360	43	43	43
10	526	630	1490	785	386	83	58	60	2390	41	39	43
11	504	630	1600	745	441	167	58	58	408	41	41	43
12	500	590	1420	740	585	573	58	56	86	41	43	43
13	487	652	1460	489	591	629	58	51	67	43	39	45
14	361	666	1570	314	461	636	65	51	65	49	37	47
15	312	652	1460	629	507	623	60	47	106	45	41	47
16	544	652	1150	610	484	749	58	98	70	41	43	47
17	544	659	1690	623	242	585	60	49	49	39	43	47
18	525	695	1940	649	409	1100	65	60	49	45	43	45
19	525	778	1940	708	510	1480	63	65	41	47	43	45
20	486	1990	2070	524	103	2770	63	63	43	43	43	43
21	320	2090	2030	433	65	2520	65	158	45	43	43	45
22	474	1700	1750	636	60	2450	65	649	45	41	37	45
23	584	1730	1340	730	65	1980	163	907	43	41	35	43
24	596	1880	1430	623	72	1780	610	856	41	41	35	43
25	577	1570	895	655	65	1410	629	763	39	43	41	43
26	633	1890	982	662	90	668	636	688	39	45	43	47
27	532	1850	1230	530	141	636	306	598	41	41	41	45
28	380	1770	1370	478	65	636	86	585	39	45	41	47
29	518	1710	1180	617		636	70	252	37	43	39	51
30	551	1780	943	623		617	60	49	39	39	41	51
31	525	—	1100	659	—	629	—	41	—	39	43	—
Mean	489	1071	1504	683	374	889	147	217	504	42.5	41.1	44.9
Ac-Ft	30090	63710	92450	42020	20760	54650	8729	13330	29980	2612	2529	2670

Maximum Discharge C.F.S. For Water Year 4,390 June 9, 1957
Year of Record 49,800 December 8, 1950

Total Discharge Ac.-Ft. For 56-Calendar Year 1652000
56-57 Water Year 363500

Station located at Mile 39.9 above mouth. Period of record June 1930 to February 1938 (low-water periods only); June 1938 to date. Records computed by Department of Water Resources.

TABLE 145

TUOLUMNE RIVER AT HICKMAN BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb	March	April	May	June	July	Aug.	Sept.
1	484	686	1740	1090	690	157	577	123	93	102	109	114
2	473	765	1440	904	752	383	208	123	87	102	107	116
3	468	728	1520	1160	498	420	160	123	89	102	109	107
4	463	728	1980	1140	498	411	146	126	87	107	114	104
5	521	728	1920	1000	684	860	136	121	458	107	111	104
6	548	753	1870	869	678	758	133	121	569	107	104	107
7	615	747	1970	942	678	629	131	121	1810	102	102	111
8	468	740	1660	854	678	525	133	126	3230	104	102	114
9	537	740	1370	817	646	493	131	126	4370	107	107	109
10	559	759	1410	942	484	183	128	126	2940	111	104	102
11	*571	759	1660	799	460	160	128	126	658	109	107	104
12	*582	704	1520	922	640	582	131	128	171	109	104	109
13	*599	759	1560	673	640	667	131	116	133	109	100	109
14	*604	797	1620	367	542	684	144	114	121	114	98	111
15	*621	759	1550	723	557	635	133	111	144	126	104	111
16	627	759	1340	712	572	770	133	146	136	116	109	116
17	627	753	1570	729	332	651	139	118	109	111	109	116
18	593	771	2000	718	402	765	136	126	102	111	109	118
19	587	734	1980	817	619	1790	133	128	98	118	109	116
20	576	1920	2090	678	237	2560	131	126	93	114	107	114
21	447	2170	2120	488	166	2570	133	126	100	116	107	116
22	484	1960	1870	712	155	2580	133	552	98	111	100	118
23	655	1700	1510	836	160	2040	133	885	98	109	96	114
24	673	1960	1490	712	163	1820	572	873	100	116	96	109
25	661	1740	1140	729	157	1570	608	764	98	116	107	111
26	716	1870	942	776	171	770	619	729	96	118	109	114
27	627	1960	1310	651	211	667	427	598	96	111	104	114
28	521	1860	1410	532	166	656	157	582	98	111	107	116
29	554	1810	1310	695		656	136	382	98	114	104	123
30	661	1890	1120	701		635	131	123	100	107	107	123
31	649	—	1170	799	—	646	—	100	—	107	107	—
Mean	573	1167	1586	790	451	926	209	304	549	110	105	112
Ac-Ft	35250	69440	97510	48570	25060	56915	12440	18240	32690	6790	6484	6684

Maximum Discharge C.F.S. For	Water Year	4,440 June 9, 1957	Total Discharge Ac.-Ft. For 56-Calendar Year 1698000
	Year of Record	39,000 December 8, 1950	56-57 Water Year 414100

Station located at Mile 31.7 above mouth. Period of record July 1932 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 146

DRY CREEK NEAR MODESTO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	58	41	25	17	17	86	71	64	62	70	62	64
2	56	35	24	17	17	178	74	69	60	68	68	58
3	54	32	26	19	17	232	68	63	63	65	67	45
4	53	31	27	24	17	109	66	69	60	68	59	42
5	53	29	28	56	17	77	60	63	41	64	57	49
6	58	28	28	39	17	675	64	61	39	61	54	49
7	67	27	25	27	18	313	61	54	40	64	61	48
8	84	27	23	24	17	135	69	56	50	66	72	49
9	84	27	22	21	18	88	75	56	59	66	63	58
10	75	25	21	20	19	72	73	72	80	62	68	68
11	86	24	20	18	18	68	82	80	90	63	63	60
12	69	23	20	20	19	67	83	73	67	60	63	52
13	66	23	20	27	18	53	88	65	68	57	66	56
14	71	23	22	37	18	43	107	74	68	60	60	54
15	84	23	20	30	18	41	130	75	69	63	60	52
16	73	22	20	28	18	41	74	74	68	60	56	53
17	56	22	21	25	19	37	48	73	75	59	62	50
18	51	22	20	24	20	34	44	85	68	66	58	61
19	49	22	20	22	19	39	48	158	72	60	67	64
20	47	22	20	24	18	38	37	260	63	69	58	66
21	49	22	20	37	19	34	29	176	66	65	55	64
22	42	22	20	41	19	29	24	102	73	65	57	68
23	42	23	19	32	24	28	22	84	70	66	58	68
24	41	22	20	27	49	28	22	60	69	74	57	69
25	38	22	19	24	144	29	24	56	64	67	60	54
26	34	23	49	23	110	61	38	63	68	70	53	55
27	32	24	35	24	94	49	50	72	71	68	48	53
28	34	25	23	24	63	54	55	64	69	62	60	45
29	34	25	21	22		56	66	59	70	60	59	49
30	35	25	18	20		66	69	59	68	60	63	63
31	42	—	18	18	—	61	—	57	—	53	69	—
Mean	55.4	25.4	23.0	26.2	31.5	94.2	60.7	80.5	65.0	63.9	60.1	56.2
Ac-Ft	3406	1509	1416	1609	1747	5794	3612	4957	3868	3929	3735	3344

Maximum Discharge C.F.S. For	Water Year	854 March 6, 1957	Total Discharge Ac.-Ft. For 56-Calendar Year 83020
	Year of Record	7,710 December 23, 1955	56-57 Water Year 38920

Station located at Clauss Road bridge, Mile 5.4 above mouth. Dry Creek enters the Tuolumne River at Mile 16.5R above mouth, 0.45 mile above the Modesto gaging station. Period of record March 1941 to date. (Prior records available at a site 2.5 miles downstream.) Records computed by Department of Water Resources.

TABLE 147

TUOLUMNE RIVER AT MODESTO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	710	770	1820	1320	825	327	892	318	318	274	274	309
2	690	869	1650	892	858	518	604	345	327	258	327	318
3	660	847	1320	1230	710	847	390	336	300	274	283	274
4	670	836	1830	1130	613	670	345	327	292	274	283	258
5	690	825	1980	1260	770	880	318	318	453	266	292	274
6	750	858	1870	988	803	1730	300	318	792	249	274	292
7	792	803	1830	892	814	1210	292	274	1690	283	258	283
8	781	847	1840	1060	814	869	300	283	2650	274	292	274
9	740	858	1590	904	814	760	327	292	4260	283	300	274
10	760	858	1240	988	710	417	318	309	4100	283	300	283
11	781	858	1690	904	575	274	327	327	1400	266	283	266
12	760	825	1650	1010	760	490	363	327	575	258	274	258
13	750	847	1520	858	792	792	327	292	426	274	266	266
14	781	892	1590	604	770	825	390	327	363	283	258	266
15	690	869	1650	710	710	803	480	336	363	292	266	283
16	836	858	1560	825	740	940	381	336	372	266	258	300
17	781	858	1210	825	622	836	327	363	345	258	266	283
18	770	869	1900	825	508	720	363	381	292	258	309	300
19	750	847	1970	904	680	1940	300	499	274	266	274	309
20	750	1360	1980	847	566	2240	274	584	240	292	274	327
21	720	2040	2090	651	336	2710	266	453	258	274	249	327
22	556	2110	2020	770	283	2710	266	660	274	309	258	318
23	740	1610	1760	916	283	2330	258	1090	283	274	266	318
24	803	1960	1380	847	283	2010	490	1210	266	283	258	318
25	792	1880	1460	847	390	1910	770	1130	249	274	300	300
26	836	1640	964	904	363	1320	803	1090	249	283	300	300
27	781	2020	1320	825	390	940	792	964	240	300	266	300
28	720	1840	1390	670	372	892	426	916	240	292	309	300
29	622	1830	1450	770		892	327	869	274	274	283	318
30	770	1800	1280	814		928	318	462	258	266	283	345
31	814	—	1010	892	—	904	—	318	—	266	309	—
Mean	743	1206	1607	899	613	1149	411	518	747	275	280	295
Ac-Ft	45710	71770	98800	55300	34020	70680	24460	31840	44480	16910	17240	17540

Maximum Discharge C.F.S. For Water Year 4,610 June 10, 1957
Year of Record 57,000 December 9, 1950

Total Discharge Ac.-Ft. For 56-Calendar Year 1857000
56-57 Water Year 528800

Station located above the U. S. Highway 99 bridge, Mile 16.05L above mouth. Period of record March 1940 to date. Records computed by U. S. Geological Survey.

TABLE 148

TUOLUMNE RIVER AT TUOLUMNE CITY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	863	849	1455	1280	900	435	895	390	410	380	330	360
2	816	887	1375	1065	870	465	790	400	415	375	350	370
3	809	885	1205	1190	845	740	565	405	440	375	335	355
4	798	875	1370	1200	705	705	500	405	475	405	340	335
5	811	866	1500	1250	735	765	455	405	535	375	335	340
6	866	873	1465	1095	830	1305	430	405	860	370	330	345
7	873	882	1350	995	835	1340	405	380	1150	400	305	360
8	902	885	1480	1085	845	1020	400	355	1720	380	330	355
9	839	887	1325	1000	835	870	410	375	3180	375	330	340
10	839	885	1160	1015	795	*865	410	380	4040	365	335	345
11	851	885	1320	995	675	*855	410	385	3960	345	355	350
12	849	875	1335	1020	705	*860	440	395	965	335	340	345
13	834	870	1250	1000	805	*850	420	385	645	345	345	350
14	849	897	1285	810	815	830	445	375	545	380	335	350
15	820	899	1330	695	745	830	515	390	485	375	335	375
16	846	892	1285	865	755	875	475	375	500	350	330	365
17	870	887	1140	865	720	885	415	405	480	340	320	350
18	846	890	1380	870	590	815	465	430	430	330	360	350
19	834	885	1470	910	655	1250	390	475	400	340	345	375
20	830	1000	1480	930	720	1650	375	530	390	355	335	380
21	816	1455	1535	815	495	2460	370	585	375	355	310	380
22	747	1570	1525	755	440	2430	370	565	380	360	310	375
23	780	1380	1405	910	425	2300	360	855	400	335	325	370
24	846	1440	1220	925	405	1975	395	1065	395	335	315	370
25	851	1480	1235	885	435	1840	665	1040	380	325	345	370
26	856	1340	1020	925	460	1485	735	985	360	335	340	365
27	863	1500	1110	900	460	1050	770	935	360	345	335	360
28	822	1480	1160	800	475	935	615	850	360	360	375	350
29	765	1480	1210	775		915	455	840	375	340	350	365
30	807	1430	1140	850		925	410	830	375	330	335	385
31	849	—	1025	885	—	905	—	455	—	325	360	—
Mean	834	1077	1308	954	676	1243	492	544	[illegible]	350	33[illegible]	3[illegible]
Ac-Ft	51267	64084	80420	58631	37030	70274	29266	33421	51144	21898	20668	21362

Maximum Discharge C.F.S. For Water Year
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 1789000
56-57 Water Year 540100

Station located [illegible] highway bridge, Mile 3.35 above mouth. Tuolumne River is [illegible] east-side tributary to the San Joaquin River at Mile 91.0R above mouth. Period of record 1930 to date. Records computed by City of San Francisco.
* Estimated

TABLE 149

SAN JOAQUIN RIVER AT HETCH HETCHY AQUEDUCT CROSSING

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	1660	1390	2025	1725	1635	1425	1535	1130	1640	865	580	830
2	1600	1405	1975	1750	1515	1440	1375	1090	2110	845	560	850
3	1540	1425	1775	1610	1565	1655	1110	1040	2815	850	535	845
4	1550	1410	1830	1740	1400	1840	950	1005	3320	885	550	845
5	1555	1405	2080	1725	1370	1855	840	1015	3650	910	635	785
6	1570	1405	2090	1725	1460	2640	740	1010	4180	895	655	780
7	1655	1405	2055	1580	1480	3575	705	950	4880	895	660	785
8	1705	1390	2100	1590	1480	3370	700	855	5480	875	710	820
9	1675	1395	1970	1650	1475	3115	690	830	5900	850	735	830
10	1640	1385	1775	1600	1600	2695	650	830	6040	800	750	775
11	1610	1375	1760	1700	1540	2220	640	865	5640	760	800	790
12	1595	1380	1890	1640	1505	2050	650	925	7200	670	825	805
13	1570	1400	1845	1795	1965	2195	640	1020	2570	625	775	845
14	1565	1425	1840	1670	2245	2305	735	890	2145	405	685	800
15	1640	1435	1875	1480	2350	2315	975	960	1945	735	640	820
16	1635	1440	1860	1595	2130	2285	940	1030	2000	645	640	895
17	1670	1435	1755	1650	1790	2335	865	1125	2005	635	630	920
18	1605	1425	1805	1635	1470	2260	1120	1220	1770	640	735	960
19	1555	1410	2090	1625	1370	2370	1280	1380	1500	605	845	960
20	1535	1395	2105	1725	1420	2935	1400	1855	1320	590	780	985
21	1530	1860	2165	1600	1230	3500	1685	2915	1195	680	735	1050
22	1490	2140	2200	1445	1115	3590	1855	3460	1175	765	760	1015
23	1400	2060	2090	1575	1115	3590	1815	3430	1215	755	690	1045
24	1445	1960	1880	1655	1120	3320	1685	3210	1145	670	700	925
25	1445	2090	1790	1590	1200	3090	1795	3180	1050	575	705	910
26	1420	1975	1660	1610	1470	2465	1885	3045	915	545	745	920
27	1430	2050	1550	1635	1375	2165	1810	3540	815	545	735	960
28	1420	2105	1680	1550	1395	1890	1700	2430	815	605	740	1015
29	1395	2040	1745	1470		1720	1390	2245	800	665	760	1025
30	1340	1990	1730	1565		1690	1240	1990	850	660	780	1125
31	1385	—	1630	1580	—	1605	—	1605	—	625	800	—
Mean	1543	1614	1891	1629	1530	2436	1180	1680	2603	712	706	897
Ac-Ft	94869	96010	116271	100136	84982	149762	70215	103289	154879	43775	43388	53385

Maximum Discharge C.F.S. For Water Year: 7,690 June 5, 1957
Year of Record: 42,800 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year: 4479000
56-57 Water Year: 1111000

Station located at Mile 82.65 above mouth, 2.9 miles above confluence of the Stanislaus River. Period of record 1936 to date. Records computed by the City of San Francisco.

TABLE 150

STANISLAUS RIVER BELOW MELONES POWERHOUSE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	720	25	294	202	140	513	1680	1670	3260	1830	1480	788
2	710	160	284	208	210	38	1670	1680	3940	1760	1570	782
3	715	512	257	195	211	44	1660	1680	3500	1730	1380	806
4	710	490	233	179	383	898	1740	1680	3700	1690	1470	812
5	700	476	236	193	456	751	1670	1690	6410	1680	1460	800
6	695	467	377	191	273	582	1670	1690	5390	1680	1450	800
7	685	490	358	226	451	540	1670	2340	4680	1680	1450	800
8	675	490	269	200	275	575	1670	2570	4440	1670	1440	812
9	615	476	263	216	257	576	1660	2440	3860	1670	1440	812
10	555	462	263	245	259	553	1660	1900	3370	1650	1440	824
11	481	467	269	232	259	572	1660	1710	2370	1580	1430	818
12	276	245	428	182	271	603	1660	1710	2410	1620	1420	830
13	2	444	503	327	253	583	1660	1740	2430	1700	1420	906
14	2	444	424	303	259	592	1140	1720	2650	1700	1420	925
15	520	444	260	442	258	593	925	1720	2570	1700	1410	925
16	570	467	272	448	279	579	932	1720	2190	1700	1400	938
17	510	467	290	471	274	584	938	1730	2130	1690	1390	944
18	500	467	263	303	268	567	964	1950	1820	1680	1390	951
19	510	462	233	16	273	552	918	6250	1860	1680	1380	951
20	460	462	142	15	66	568	800	5470	2150	1670	1380	951
21	450	462	292	489	25	48	724	3840	2430	1660	1370	964
22	450	472	164	452	24	592	724	1990	1910	1610	1360	958
23	450	472	18	367	35	592	818	2830	1880	1510	1350	674
24	460	334	185	23	41	558	1170	2670	2160	1500	1340	590
25	460	212	174	386	67	593	1350	2480	2080	1500	1340	560
26	460	20	195	34	29	774	1350	2600	1970	1500	1320	674
27	460	94	236	122	29	1290	1360	2990	1850	1500	1320	685
28	460	308	255	358	36	1290	1360	3350	1840	1480	1310	641
29	280	297	208	227		1290	1490	3250	2270	1480	1300	590
30	2	294	188	228		1430	1580	2900	1910	1480	1290	575
31	2	—	198	119	—	1680	—	2900	—	1480	866	—
Mean	469	379	259	245	202	677	1342	2479	2848	1628	1380	803
Ac-Ft	28850	22580	15930	15070	11230	41650	79880	152400	169400	100100	84860	47770

Maximum Discharge C.F.S. For Water Year: 7,690 June 5, 1957
Year of Record: 42,800 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year: 1625000
56-57 Water Year: 769700

Station located 1.0 mile below Melones Dam. Drainage area is 898 square miles. Period of record January 1931 to date. Records computed by U. S. Geological Survey.

TABLE 151

STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	21	40	257	187	18	72	77	46	1440	113	31	32
2	19	115	257	192	18	258	65	44	1800	60	29	29
3	20	136	254	191	18	47	50	53	2330	41	26	27
4	21	396	237	170	17	236	41	47	2350	36	28	26
5	24	386	246	166	17	1510	41	42	3210	32	31	23
6	26	400	240	173	19	675	35	39	4580	33	31	21
7	28	400	376	170	18	234	33	85	3380	32	31	24
8	25	418	272	203	18	134	32	853	2900	32	32	27
9	21	422	249	188	19	120	32	835	2570	31	32	28
10	24	411	252	197	19	110	33	*718	2250	28	31	27
11	24	411	252	206	18	409	34	*216	1460	28	31	27
12	25	386	260	215	19	501	33	*38	427	28	30	25
13	21	276	400	216	29	894	35	*208	111	29	29	22
14	21	404	407	304	29	651	96	*346	693	32	29	23
15	80	407	304	311	27	593	82	*352	1130	39	31	25
16	568	418	234	411	31	607	58	149	993	38	31	27
17	458	429	252	418	31	604	33	143	631	37	28	26
18	447	432	252	407	25	556	77	336	325	35	29	25
19	447	432	234	270	26	548	127	2840	75	33	28	26
20	440	425	208	140	28	542	125	4840	220	33	27	25
21	422	432	168	41	29	540	63	4520	760	33	29	27
22	411	429	285	28	31	143	40	2930	643	34	30	26
23	414	432	171	24	63	440	38	2180	154	34	30	24
24	414	418	133	24	73	483	84	2140	172	32	30	24
25	422	276	133	22	76	421	43	1720	394	32	31	24
26	418	208	150	22	35	302	33	1370	275	32	31	23
27	422	131	186	23	33	328	33	1360	161	29	28	23
28	418	108	220	21	31	241	35	1680	75	29	25	24
29	407	208	234	18		55	35	1770	419	29	25	26
30	186	254	203	18		33	68	1620	370	30	29	25
31	56	—	192	18	—	30	—	1340	—	30	31	—
Mean	218	335	242	161	29.1	397	53.7	1125	1210	35.9	29.5	25.4
Ac-Ft	13390	19910	14910	9905	1617	24430	3195	69140	72000	2210	1813	1509

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
Water Year	4,950 May 20, 1957		56-Calendar Year	1190000	
Year of Record	52,000 November 21, 1950		56-57 Water Year	234000	

Station located at Orange Blossom Road bridge, Mile 47.0 above mouth, 5.7 miles above Oakdale. Period of record June 1930 to November 1939 (low-water periods only); April 1940 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 152

STANISLAUS RIVER AT RIVERBANK

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	80	97	330	251	71	106	116	121	1440	257	79	89
2	78	114	332	253	70	250	145	109	1700	155	83	86
3	77	108	328	253	68	160	112	121	2200	113	77	84
4	74	348	318	242	66	98	112	105	2390	103	78	83
5	77	449	306	237	64	1120	105	102	*2630	95	77	80
6	78	461	323	240	63	1120	101	95	4250	89	73	77
7	82	461	401	240	64	334	98	91	3670	88	79	77
8	85	479	398	260	63	206	90	568	3010	90	79	81
9	88	485	325	258	64	176	89	875	2720	85	83	81
10	80	485	313	262	64	165	86	762	2400	85	88	79
11	83	479	316	267	65	400	89	342	1930	81	88	83
12	80	485	313	272	63	501	91	180	878	81	85	84
13	84	343	426	293	69	705	89	345	324	81	78	81
14	84	446	500	356	85	871	154	450	523	83	78	86
15	84	485	437	348	74	644	224	469	1160	84	81	77
16	387	485	325	447	78	657	118	340	1190	81	86	81
17	550	500	311	479	83	672	112	293	862	81	88	80
18	519	506	328	499	78	640	99	365	568	80	84	81
19	519	510	320	353	72	629	183	*2030	250	79	78	84
20	525	494	292	262	76	624	148	*4640	140	84	77	86
21	506	494	242	178	80	633	164	4910	670	78	78	80
22	503	500	296	116	83	334	99	3490	889	78	79	78
23	510	506	292	98	86	432	86	2230	339	79	77	77
24	510	500	203	90	133	584	88	2180	186	77	77	76
25	516	389	178	85	121	531	132	1940	400	74	80	76
26	519	289	193	86	113	385	90	1560	362	74	81	77
27	522	184	219	80	91	316	88	1430	262	73	85	76
28	513	137	275	79	90	359	90	1670	190	72	83	77
29	506	162	296	74		240	86	1820	270	73	79	79
30	373	287	278	73		150	81	1740	550	73	84	83
31	158	—	287	71	—	98	—	1460	—	79	90	—
Mean	285	389	313	229	78.5	456	112	1188	1278	90.5	81.0	80.6
Ac-Ft	17550	23140	19240	14090	4358	28050	6674	73060	76070	5564	4982	4798

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
Water Year	5,080 May 21, 1957		56-Calendar Year	1239000	
Year of Record	85,800 December 23, 1955		56-57 Water Year	277600	

Station located at Mile 33.6 above mouth. Period of record July 1940 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 153

STANISLAUS RIVER AT RIPON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	190	260	346	304	148	156	230	141	1470	528	157	191
2	190	219	354	304	148	194	221	161	1610	358	164	187
3	208	230	356	304	145	281	221	180	1900	312	157	185
4	199	244	356	304	144	195	182	189	2240	267	182	173
5	213	466	344	291	143	394	189	167	2280	251	195	154
6	239	501	342	286	140	1210	168	161	3200	201	171	164
7	195	519	346	286	140	607	167	140	4020	206	146	156
8	213	530	446	291	140	380	167	185	3230	192	157	173
9	194	547	388	307	137	281	164	705	2850	192	171	177
10	204	550	358	302	135	248	150	814	2580	178	153	167
11	213	545	353	308	135	250	136	597	2240	159	188	170
12	210	541	348	316	134	438	143	343	1480	153	187	168
13	230	512	370	332	132	578	149	304	861	156	161	164
14	244	437	492	336	137	801	178	400	609	170	167	173
15	233	525	510	380	139	705	252	489	1070	181	163	182
16	246	534	424	406	139	691	214	465	1320	206	160	196
17	569	543	362	478	135	708	194	372	1140	173	163	180
18	642	561	364	505	139	691	257	392	861	160	188	163
19	646	561	360	487	136	672	230	1100	590	153	160	163
20	600	554	340	392	131	662	267	3240	412	160	164	194
21	609	550	318	308	143	662	248	4500	467	170	157	206
22	594	554	286	242	141	609	216	4390	941	171	159	199
23	576	558	372	205	144	367	178	2800	757	156	146	198
24	572	563	294	185	152	571	161	2300	422	168	157	173
25	567	541	244	175	181	600	163	2210	388	156	173	177
26	565	422	228	175	171	523	174	1840	547	152	171	188
27	565	350	233	168	159	509	163	1650	440	153	161	202
28	569	270	266	164	145	478	149	1590	347	148	173	192
29	569	231	310	159		410	140	1780	283	148	168	181
30	556	286	330	153		318	127	1790	549	141	178	195
31	388	—	312	150	—	251	—	1650	—	150	195	—
Mean	387	457	347	290	143	498	187	1195	1370	196	167	180
Ac-Ft	23820	27180	21320	17860	7960	30620	11100	73480	81530	12040	10300	10690

Maximum Discharge C.F.S. For	Water Year	4,210 May 22, 1957	Total Discharge Ac.-Ft. For 56-Calendar Year 1321000
	Year of Record	62,500 December 24, 1955	56-57 Water Year 327900

Station located at Southern Pacific Railroad bridge, 1.0 mile southeast of Ripon, Mile 15.7L above mouth. Period of record April 1940 to date. Records computed by U. S. Geologic l Survey.

TABLE 154

STANISLAUS RIVER NEAR MOUTH

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	242	395	370	314	174	182	251	90	1460	521	61	246
2	229	332	390	307	174	206	208	118	1520	364	130	228
3	240	312	392	304	168	256	195	141	1760	284	138	194
4	249	302	387	304	161	270	157	170	2070	256	162	130
5	307	412	384	302	157	220	142	163	2170	206	136	122
6	307	512	370	297	155	869	146	164	2760	163	97	109
7	284	534	378	292	166	*920	135	144	3780	106	75	136
8	272	540	418	294	168	*587	144	142	3540	178	95	164
9	270	557	433	299	166	*442	128	366	3200	178	109	132
10	249	553	392	304	166	*353	123	674	3120	153	95	99
11	253	557	378	304	164	*312	123	652	2680	132	111	109
12	225	547	381	314	166	*390	110	459	1800	135	154	121
13	242	553	375	325	164	*550	120	351	1040	148	117	119
14	302	471	442	332	164	*688	127	375	684	155	75	140
15	327	515	499	353	168	*774	214	448	789	139	85	187
16	287	537	471	367	172	*696	245	518	1200	150	84	190
17	387	543	407	412	170	*714	236	448	1120	117	99	148
18	567	557	387	448	170	*740	332	468	823	106	122	136
19	597	557	384	471	174	*732	353	725	597	109	130	156
20	557	560	367	427	170	*736	356	2420	418	109	102	150
21	577	557	338	367	176	*740	372	3810	338	135	101	185
22	567	560	304	312	184	*736	348	4220	624	130	126	232
23	563	560	304	260	197	540	289	3280	710	115	99	230
24	570	560	330	229	193	524	231	2470	442	111	92	172
25	570	557	282	212	206	587	174	2330	317	106	140	185
26	584	496	247	203	201	530	159	2000	395	87	130	201
27	594	427	242	197	201	493	170	1670	367	126	140	239
28	604	361	260	193	189	433	159	1540	319	132	80	250
29	600	317	294	187		442	122	1680	267	126	108	284
30	610	304	327	180		372	92	1680	335	88	119	284
31	527	—	330	178	—	309	—	1640	—	72	142	—
Mean	412	485	363	300	174	527	199	1141	1359	161	111	176
Ac-Ft	25310	28850	22300	18420	9687	32420	11820	70100	80820	9911	6851	10480

Maximum Discharge C.F.S. For	Water Year		Total Discharge Ac.-Ft For 56-Calendar Year 1244000
	Year of Record		56-57 Water Year 326800

Station located at Mile 1.9R above mouth. Stanislaus River is an east-side tributary to the San Joaquin River at Mile 10.7R above mouth. Backwater from the San Joaquin River at times affects the river-discharge relationship at this station. Period of record September 1951 to date. (Prior records available at other sites for 1940 to 1950.) Records computed by Department of Water Resources.

* Estimated

TABLE 155

SAN JOAQUIN RIVER NEAR VERNALIS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	2010	1780	2730	1990	1820	1690	1810	1130	2910	1400	605	1010
2	1880	1720	2700	2010	1770	1720	1610	1090	3390	1240	570	1120
3	1770	1710	2450	1850	1750	1940	1300	1080	4320	1160	555	1050
4	1800	1680	2400	1990	1660	2230	1060	1070	5140	1150	565	990
5	1900	1770	2820	1960	1540	2150	924	1090	5640	1160	672	936
6	1960	1900	2880	1970	1630	3340	798	1070	6390	1090	690	918
7	2060	1920	2830	1830	1680	4690	726	1010	7800	1090	666	924
8	2100	1920	2920	1840	1680	4150	744	918	8450	1100	732	1020
9	2040	1940	2800	1910	1660	3750	702	1030	8690	1050	780	1060
10	1960	1930	2340	1920	1770	3250	654	1370	9260	954	804	942
11	1940	1900	2280	2010	1750	2670	654	1460	8370	876	846	906
12	1890	1910	2540	1970	1660	2510	644	1340	5790	804	936	990
13	1830	1960	2450	2160	2120	2720	649	1350	3780	744	864	1030
14	1900	1910	2420	2040	2510	3030	714	1240	2890	756	726	1010
15	2070	1970	2510	1860	2680	3160	1040	1330	2730	864	660	1050
16	2040	2000	2490	1990	25[illegible]	3030	1100	1470	3060	780	6[illegible]	1190
17	2140	1990	2260	2080	2110	3120	1010	1490	3110	708	649	1160
18	2240	2000	2340	2110	1780	3040	1340	1[illegible]	2690	72[illegible]	786	1190
19	2200	1970	2850	2110	1630	3040	1610	1960	2210	[illegible]90	924	1220
20	2150	1930	2890	2120	1690	3710	1750	3520	1830	638	858	1200
21	2160	2620	2990	1970	1510	4230	2070	5590	1590	744	798	1350
22	2080	3100	3020	1770	1350	4470	2230	6490	1770	888	822	1370
23	1920	3040	2850	1820	1350	4340	2130	6150	1960	888	738	1410
24	2020	2840	2480	1890	1340	4000	1970	5590	1630	762	732	1280
25	2030	3060	2250	1810	1420	3830	1940	5140	[illegible]20	[illegible]84	762	1240
26	2000	2850	1990	1810	1750	3490	[illegible]	4910	1300	632	822	1240
27	2040	2790	1740	1840	1660	2770	1960	4390	1240	654	810	1260
28	2020	2890	2000	1770	1660	2390	1860	3870	1150	696	750	1350
29	1980	2720	2160	1660		2210	1510	3730	1070	768	810	1410
30	1900	2630	2210	1740		2080	1280	3520	1140	744	846	1490
31	1930	—	2070	1760	—	1930	—	3080	—	[illegible]84	[illegible]94	—
Mean	1999	2212	2505	1921	1763	3054	1320	3578	3759	875	7[illegible]3	1149
Ac-Ft	122900	131600	154000	118100	97920	187800	78920	158[illegible]	22370	[illegible]790	[illegible]90	68340

Maximum Discharge C.F.S. For	Water Year	9,570 June 10, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	[illegible]93[illegible]
	Year of Record	79,000 December 9, 1950		56-57 Water Year	1442[illegible]

Station located above the Durham Ferry highway bridge, Mile 76.7L above mouth, 3 miles below confluence of the Stanislaus River. Drainage area is approximately 14,010 square miles. Period of record July 1922 to October 1928 (low-water periods only, except 1924); May 1939 to date. Records computed by U. S. Geological Survey.

TABLE 156

DUCK CREEK DIVERSION NEAR FARMINGTON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1						12						
2						0						
3						0						
4						0						
5						265						
6						20						
7						0						
8						0						
9						0						
10						0						
11						0						
12	N	N	N	N	N	0	N	N	N	N	N	N
13	0	0	0	0	0	0	0	0	0	0	0	0
14						0						
15						0						
16						0						
17	F	F	F	F	F	0	F	F	F	F	F	F
18	L	L	L	L	L	0	L	L	L	L	L	L
19	0	0	0	0	0	0	0	0	0	0	0	0
20	W	W	W	W	W	0	W	W	W	W	W	W
21						0						
22						0						
23						0						
24						0						
25						0						
26						0						
27						0						
28						0						
29						0						
30						0						
31		—			—	0	—		—			—
Mean	0	0	0	0	0	9.6	0	0	0	0	0	0
Ac-Ft	0	0	0	0	0	588	0	0	0	0	0	0

Maximum Discharge C.F.S. For	Water Year	445 March 5, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	6014
	Year of Record	2,440 December 23, 1955		56-57 Water Year	588

Station located approximately 1.0 mile northeast of Farmington. These flows are diversions from Duck Creek to Littlejohns Creek. Drainage area is 28 square miles. Period of record September 1951 to date. Records computed by U. S. Corps of Engineers.

TABLE 157

LITTLEJOHNS CREEK AT FARMINGTON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1						7	3	1	8	5	5	6
2						6	3	0	8	4	5	6
3						28	2	0	8	6	5	5
4						14	2	0	8	7	4	5
5						449	2	1	9	7	3	6
6						622	2	3	8	7	3	6
7						1057	1	4	8	6	3	5
8						211	1	3	7	6	4	5
9						60	2	4	5	4	4	5
10						55	1	5	6	5	4	5
11						40	1	6	8	4	5	5
12						28	1	6	9	5	5	5
13	N	N	N	N	N	33	1	7	9	5	3	6
14	O	O	O	O	O	33	4	10	9	6	2	6
15						24	5	9	9	6	3	6
16						18	6	7	9	5	2	4
17	F	F	F	F	F	16	5	7	9	4	2	3
18	L	L	L	L	L	16	5	9	8	5	3	3
19	O	O	O	O	O	13	5	11	9	5	4	4
20	W	W	W	W	W	10	9	41	8	4	4	4
21						9	10	145	8	4	4	4
22						8	10	151	6	4	4	4
23						7	9	142	6	4	4	3
24						7	8	132	6	7	4	3
25						6	6	64	6	8	4	2
26						6	5	27	6	7	4	2
27						5	5	16	5	6	4	2
28						5	4	14	6	6	3	2
29						4	4	13	4	6	4	2
30						4	2	11	5	5	5	1
31		—			—	3	—	10	—	6	5	—
Mean	0	0	0	0	0	90.3	4	27.7	7.3	5.5	3.8	4.2
Ac-Ft	0	0	0	0	0	5552	246	1704	436	335	234	248

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
Water Year	1,400 March 7, 1957		56-Calendar Year	79580	
Year of Record	2,740 December 23, 1955		56-57 Water Year	8755	

Station located approximately 300 feet below Farmington-Escalon highway bridge. These flows include flows entering Littlejohns Creek via the Duck Creek Diversion. Period of record June 1952 to date. (Prior records available from 1945 to June 1952 at a site approximately 1.0 mile upstream. They do not include flow of Duck Creek Diversion.) Flows computed by U. S. Corps of Engineers.

TABLE 158

FRENCH CAMP SLOUGH NEAR FRENCH CAMP

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	9.5	4.9	1.8	5.7	0.6	28	29	17	21	*9.9	8.8	13
2	14	7.0	1.3	5.7	0.3	100	32	17	21	*3.2	*8.0	13
3	12	3.7	2.0	5.0	0.2	43	23	24	25	*13	*9.0	6.8
4	9.2	3.2	3.2	5.0	0.1	35	13	33	26	*17	*10	3.5
5	4.1	1.8	1.7	2.7	0	240	22	30	20	*18	*10	4.0
6	6.7	1.6	1.2	1.1	0.3	677	25	32	17	*14	*11	6.6
7	14	1.5	1.3	1.6	0.3	991	22	22	16	*11	11	17
8	26	1.5	3.2	5.4	0.3	576	12	10	18	*14	8.8	9.2
9	19	1.5	3.5	5.0	0	155	15	15	22	*10	9.9	*7.5
10	30	1.4	3.7	3.8	0	131	23	18	30	*12	7.2	*6.0
11	36	1.4	2.3	2.2	0	116	25	6.2	31	*12	16	4.9
12	*24	1.4	1.7	3.8	0	81	*25	6.2	31	*9.0	21	4.6
13	20	1.4	2.2	5.0	0	73	*25	7.5	22	*13	13	2.5
14	16	1.4	1.6	3.5	0	80	*24	18	22	*12	11	8.5
15	12	1.3	1.1	6.1	0	66	*24	36	23	*11	13	6.3
16	8	1.1	1.0	4.4	0	52	*23	59	29	*10	11	1.2
17	4.7	0.9	1.0	2.5	0	41	*23	40	27	11	7.0	4.1
18	5.1	0.8	1.0	1.4	0	39	34	33	28	8.5	6.2	7.2
19	7.8	0.6	0.9	1.0	0	36	32	91	32	12	7.2	5.5
20	4.6	0.6	1.4	1.1	0	27	17	144	25	13	9.0	3.4
21	14	1.0	1.8	2.5	0	22	11	156	20	12	12	5.8
22	5.1	2.2	3.5	16	0	18	10	168	16	10	13	16
23	5.1	2.5	7.0	7.3	2.5	15	12	155	23	7.5	20	15
24	12	2.3	7.8	4.0	14	14	12	129	20	20	20	20
25	11	2.4	7.8	4.0	15	12	11	110	6.1	14	11	21
26	4.6	2.0	4.9	2.7	9.1	10	10	36	3.4	15	7.2	27
27	3.7	2.4	4.5	2.9	6.9	11	10	32	*2.0	12	13	13
28	3.5	3.4	3.7	8.6	8.2	8.6	15	24	*2.0	13	8.8	2.7
29	2.9	2.1	3.4	4.7		18	13	21	*6.6	7.3	6.6	3.8
30	2.3	1.9	3.3	2.5		41	18	21	*8.8	7.5	6.6	*23
31	2.3	—	3.2	1.3	—	31	—	24	—	10	6.0	—
Mean	11.3	2.0	2.8	4.1	2.1	122	19.7	49.5	19.8	11.7	10.7	9.4
Ac-Ft	693	121	174	255	115	7513	1170	3044	1178	718	659	560

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
Water Year	1,290 March 7, 1957		56-Calendar Year	91880	
Year of Record	3,390 December 9, 1950		56-57 Water Year	16200	

Station located 1.5 miles southeast of French Camp at Durham Ferry Road bridge, Mile 5.4 above mouth. Also known as "Littlejohns Creek near French Camp". French Camp Slough is an east-side tributary to the San Joaquin River at Mile 46.1R above mouth. Dam in channel below station affectin flows from June 12 to October 12, 1956, and from April 12 to October 24, 1957. Flows during these periods computed from temporary station below dam. Period of record January 1950 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 159

OUCK CREEK AT FARMINGTON

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	*0.1	0				25	0	*0.1	*0.2	*0.1	0	*0.1
2	*0.1	0				4.8	0	0	*0.2	*0.1	*0.2	*0.1
3	*0.1	0				1.3	0	0	*0.2	*0.1	0	*0.2
4	*0.1	0				7.6	0	0	*0.1	*0.1	0	*0.3
5	*0.1	0				110	0.5	0	*0.1	*0.2	*0.2	*0.7
6	*0.1	0				50	0.2	*0	*0.2	*0.2	*0.7	*0.6
7	*0.1	0				12	0.1	*0	*0.1	*0.2	*0.1	*0.5
8	*0.1	0				3.9	0	*0	*0.1	*0.1	*0.3	*0.1
9	*0.1	0				3.1	0	*0.1	*0.2	*0.1	*0.4	*0.2
10	*0.1	0				7.0	0	*0.1	*0.2	*0.1	*0.2	*0.1
11	*0.1	0				3.1	0	*0.1	*0.2	*0.1	0	*0.3
12	*0.1	0				1.7	0	*0.1	*0.2	*0.1	0	*0.3
13	*0.1	0	N	N	N	1.7	0	*0.1	*0.2	*0.1	*0.1	*0.4
14	*0.1	0	0	0	0	1.3	0	*0.1	*0.2	*0.1	*0.1	*0.3
15	*0.1	*0				0.9	0	*0.1	*0.3	*0.2	*0.2	*0.4
16	*0.1	*0				0.5	*0.2	*0.2	*0.2	*0.1	*0.5	*0.4
17	*0.1	*0	F	F	F	0.2	*0	*0.2	*0.3	*0.1	*0.6	*0.4
18	*0.1	*0	L	L	L	0	*0.4	*0.7	*0.5	*0.2	*0.3	*0.3
19	0	0	0	0	0	0	0	*2.8	*0.6	*0.2	*0.1	*0.3
20	0	0	W	W	W	0	0	*2.8	*0.7	*0.1	*0.2	*0.3
21	0	0				0	0	*2.8	*0.5	*0.1	*0.1	*0.2
22	0	0				0	0	*2.0	*0.1	*0.1	*0.2	*0.1
23	0	0				0	0	*0.2	*0.1	*0.2	*0.2	*0.1
24	0	0				0	0	*0.1	0	*0.1	*0.3	*0.1
25	0	0				0	0	*0.1	0	*0.1	*0.1	*0.2
26	0	0				0	0	0	0	*0.2	0	*0.2
27	0	0				0	0	0	*0.1	*0.3	*0.2	*0.2
28	0	0				0	*0.1	*0.1	*0.2	*0.2	*0.2	*0.1
29	0	0				0	*0.1	*0.1	*0.2	*0.2	*0.7	*0.3
30	0	0				0	*0.1	*0.1	*0.1	0	*0.7	*0.1
31	0	—			—	0	—	*0.1	—	0	*0.4	—
Mean	0.1	0	0	0	0	7.6	0.1	0.4	0.2	0.1	0.2	0.3
Ac-Ft	4	0	0	0	0	464	3	26	12	8	14	16

Maximum Discharge C.F.S. For:	Water Year	139 March 5, 1957	Total Discharge Ac.-Ft. For 56-Calendar Year 2310
	Year of Record	930 January 17, 1950	56-57 Water Year 547

Station located 0.5 mile northwest of Farmington, 300 feet west of Bellota-Escalon highway. Period of record January to April 1950; October 1950 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 160

DUCK CREEK NEAR STOCKTON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	0					0	0	0	0.1	0.3	1.5	2.0
2	0					0	0	0	0.2	0.3	1.1	1.2
3	0					0	0	0	0	0.6	1.0	0
4	0.5					0	0	0.4	0.1	0.5	1.2	0.2
5	0.4					2.5	0	0.7	0.2	0.9	1.8	3.3
6	0.4					96	0	0.4	0.2	0.8	0.5	6.4
7	0.3					49	0	1.4	0.2	0.5	1.1	5.2
8	0.2					21	0	0.4	0.1	0.5	2.6	1.7
9	0.1					12	0.3	0.1	0	0.8	3.4	0.1
10	0					7.6	0.6	0.1	0	0.8	1.3	0.2
11	0					3.7	0.5	0.2	0	0.5	0.4	1.7
12	0	N	N	N	N	4.8	0.5	0.3	0.2	0.1	0.9	0.7
13	0.1	0	0	0	0	5.4	1.0	0.2	0.1	0.4	1.5	0.7
14	0.1					2.6	2.1	0.1	0.2	1.5	0.9	1.5
15	0					1.2	2.3	0	0.5	0.9	1.1	*0.9
16	0.1					0.8	2.5	0	0.2	0.8	1.6	*0.2
17	0.1	F	F	F	F	0.5	0.7	0	0.2	1.3	1.0	*0.1
18	0.2	L	L	L	L	0.4	4.1	0	0.2	2.3	0.8	5.3
19	0.1	0	0	0	0	0.3	1.8	0.1	0.4	1.6	*0.3	5.4
20	0.1	W	W	W	W	0.2	0.3	0.7	0.4	0.7	*3.2	2.1
21	0.1					0	0.1	1.1	0.3	0.4	2.6	0.8
22	0.5					0	0	3.5	0.2	0.2	2.4	0.4
23	0.4					0	0	4.3	0.5	0.3	4.5	1.1
24	0.2					0	0	2.9	0.6	0.9	5.4	1.0
25	0.2					0	0	0.8	0.8	1.5	2.9	*0.5
26	0.2					0	0	0.2	0.5	2.4	1.8	*0.5
27	0.2					0	0	0	0.5	2.2	1.4	*1.2
28	0					0	0	0.1	0.2	0.4	2.1	*1.2
29	0					0	0	0.1	0	0.3	3.3	*1.3
30	0					0	0	0	0	1.0	2.8	*0.3
31	0	—			—	0	—	0	—	1.2	3.7	—
Mean	0.1	0	0	0	0	6.7	0.6	0.6	0.2	0.9	1.9	1.6
Ac-Ft	9	0	0	0	0	413	33	36	14	53	119	94

Maximum Discharge C.F.S. For	Water Year	133 March 6, 1957	Total Discharge Ac.-Ft. For 56-Calendar Year 3665
	Year of Record	400 December 24, 1955	56-57 Water Year 771

Station relocated from 0.5 mile west of U. S. Highway 99 on Pock Lane bridge to 1.0 mile west of U. S. Highway 99 on Laurel Avenue on February 26, 1957. Duck Creek is an east-side tributary, via French Camp Slough, to the San Joaquin River at Mile 46.1R above mouth. During high-flow periods, flow from Duck Creek enters Mormon Slough approximately 2 miles east of the head of Stockton Diverting Canal. Period of record January 1950 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 161

CALAVERAS RIVER AT JENNY LIND

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	4	51	22	28	50	262	11	14	143	182	190	1.2
2	3	48	22	28	47	398	10	15	162	182	188	.3
3	2	37	22	26	47	998	10	13	162	180	192	0
4	2	29	24	26	48	986	9.5	13	160	178	190	0
5	2	25	32	28	48	2370	10	13	160	178	188	0
6	2	23	60	30	46	2820	9.5	13	160	175	185	0
7	2	25	80	31	45	2520	9.0	13	160	172	182	0
8	2	21	63	31	46	1390	10	13	168	192	195	0
9	1	20	47	31	85	77	10	13	182	190	175	0
10	1	20	39	33	110	56	11	13	182	190	170	0
11	1	20	35	33	96	35	12	13	188	192	168	0
12	1	19	33	31	98	50	12	14	205	200	182	0
13	1	19	32	39	109	45	12	14	218	200	210	0
14	1	19	32	125	98	34	16	15	218	195	235	0
15	1	20	30	130	72	32	14	14	212	192	229	0
16	1	20	31	88	5.4	31	13	13	212	192	215	0
17	1	20	30	66	.8	29	15	13	180	190	210	0
18	7.0	20	28	54	.6	26	21	18	160	192	200	0
19	7.0	21	28	47	.6	26	17	20	195	190	190	0
20	7.5	21	29	62	.4	25	15	22	208	195	178	0
21	7.5	21	32	180	1.2	22	16	26	223	195	166	0
22	7.0	21	34	168	1.6	18	19	23	235	192	154	0
23	8.0	21	32	119	2.2	17	21	22	232	192	139	0
24	9.5	21	44	90	7.5	17	22	20	229	190	119	0
25	12	21	39	76	37	17	22	18	226	188	90	0
26	17	21	35	80	17	16	21	18	210	190	58	0
27	22	21	31	91	39	16	18	18	202	188	35	0
28	26	22	30	82	123	14	16	18	195	185	32	0
29	28	22	32	69		13	14	25	182	185	26	0
30	26	22	32	60		12	14	74	182	188	10	0
31	27	—	30	53	—	12	—	105	—	192	3.	—
Mean	7.73	23.7	35.2	65.6	45.8	399	14.3	21.2	192	188	152	0.05
Ac-Ft	475	1410	2160	4030	2540	24560	853	1300	11410	11590	9330	3.0

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
	Water Year	3,160 March 5, 1957		56-Calendar Year	185900
	Year of Record	30,000 January 31, 1911		56-57 Water Year	69660

Station located below bridge on Milton Road, 0.2 miles south of Jenny Lind, Mile 36.9 above mouth. Drainage area is 395 square miles. Period of record January 1907 to date. Records computed by U. S. Geological Survey.

TABLE 162

CALAVERAS RIVER AT BELLOTA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	28	22	66	9.1	0	74	108	120	4.4
2			0	27	18	86	7.6	0	108	107	120	2.8
3			0	26	18	129	7.1	0	112	107	123	1.6
4			0	25	18	142	6.5	0	108	107	122	1.0
5			0	26	18	*230	5.6	0	107	109	120	0.3
6			0	27	24	*263	1.9	0	102	106	118	0.3
7			0	27	35	236	0.8	0	102	107	115	0.3
8			0	24	34	204	0.4	0	104	108	122	0.4
9			0	17	36	92	1.7	0	117	104	113	0.2
10			0	18	44	76	2.8	0	118	99	113	0.3
11			0	18	43	63	2.8	0	115	96	114	0.3
12	N	N	0	18	42	62	2.0	0	124	98	103	0.1
13	O	O	0	18	57	65	2.1	0	142	98	117	0
14			11	19	64	49	6.2	0	147	99	138	0
15			17	56	62	40	5.4	0	146	97	146	0
16			17	*72	39	37	2.5	0	146	101	141	0
17	F	F	17	*44	14	34	0	0	140	105	139	0
18	L	L	16	27	3.7	30	0	0	102	104	134	0
19	O	O	14	27	0	23	0	0	117	108	133	0
20	W	W	14	27	0	24	0	0	125	118	125	0
21			13	31	0	22	0	0	122	121	113	0
22			12	93	0	18	0	0	125	123	102	0
23			12	64	0	15	0	0	128	123	96	0
24			12	52	0	15	0	0	132	125	79	0
25			12	18	21	15	0	0	125	123	62	0
26			12	57	13	16	0	0	119	118	45	0
27			12	49	15	13	0	0	117	115	35	0
28			20	24	31	12	0	0	113	113	22	0
29			29	25		12	0	3.0	110	107	24	0
30			29	25		11	0	14	111	106	13	0
31		—	29	24	—	10	—	34	—	117	9.9	—
Mean	0	0	9.6	34.0	24.0	68.1	2.2	1.6	119	109	99.3	0.4
Ac-Ft	0	0	593	2093	1332	4185	128	101	7057	6698	6103	24

Maximum Discharge C.F.S. For			Total Discharge Ac.-Ft. For		
	Water Year	231 March 5, 1957		56-Calendar Year	37720
	Year of Record			56-57 Water Year	28310

Station located above the highway bridge at Bellota, Mile 25.25L above mouth. Flows are regulated by headgates. Period of record November 1948 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 163

CALAVERAS RIVER NEAR STOCKTON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1		0	0	11	7.5	21	2.6		0	26	1.2	
2		0	0	12	6.1	54	0.4		0	12	6.2	
3		0	0	12	3.	*97	0		0	19	11	
4		0	0	11	3.0	*165	0		0.8	11	2	
5		0	0	11	1.5	198	0		24	19	14	
6		0	0	11	0	225	0		22	26	6.4	
7		0.6	0	12	0	217	0		10	15	5.8	
8		0.4	0	13	*12	209	0		6.8	19	8.0	
9		0	0	11	*7.8	140	0		0.2	17	9.5	
10		0	0	5.8	*6.4	81	0		11	15	1.4	
11		0	0	5.5	*7.7	64	0		6.4	6.0	2.0	
12	N	0	0	5.6	11	53	0	N	3.8	2.6	0.4	N
13	O	0	0	6.3	*4.8	58	0	O	0	4.1	0	O
14		0	0	5.6	*7.0	52	0		3.8	15	0	
15		0	0	4.9	*15	39	0		22	9.3	0	
16	F	0	0	31	*10	31	0	F	42	0	20	F
17	L	0	0	38	*2.0	30	0	L	65	5.1	26	L
18	O	0	0	19	*0	26	0	O	42	1.0	36	O
19	W	0	0	12	*0	22	0	W	8.2	0	30	W
20		0	0	12	*0	14	0		6.9	0	26	
21		0	0	9.4	0	14	0		28	2.7	19	
22		0	0	9.6	0	12	0		26	10	9.3	
23		0	0	49	0	7.1	0		41	7.4	0.9	
24		0	0	24	0	4.3	0		39	5.3	0	
25		0	0	22	0	3.4	0		35	9.9	0	
26		0	0	19	0	3.1	0		33	7.2	0	
27		0	0	37	2.0	2.5	0		26	18	0	
28		0	0	19	1.5	0.6	0		16	25	0	
29		0	0	11		0	0		15	18	0	
30		0	0	10		0	0		28	5.2	0	
31		—	3.7	10	—	0	—		—	0	0	—
Mean	0	0	0	15.2	3.9	59.5	0.1	0	18.7	10.7	4.4	0
Ac-Ft	0	2.0	7.0	932	216	3656	6	0	1115	656	514	0

Maximum Discharge C.F.S. For Water Year 242 March 5, 1957
Year of Record *520 December 24, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 16810
56-57 Water Year 7104

Station located at Mile 7.9L above mouth, 0.9 mile below Solari Road bridge, 2.5 miles above confluence of Stockton Diverting Canal. Calaveras River is an east-side tributary to the San Joaquin River. Period of record 1948 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 164

MORMON SLOUGH AT BELLOTA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	2.6	28	18	0	21	234	0	7.2	24	60	55	
2	1.7	42	20	0	22	168	0	7.2	46	60	53	
3	0.4	37	20	0	25	739	0	7.2	56	58	53	
4	0.4	26	20	0	28	795	0	3.9	51	57	52	
5	0.4	11	24	0	29	2280	0	2.2	50	58	48	
6	0.4	22	33	0	24	2480	0	1.3	42	63	46	
7	0.4	20	64	0	7.5	2100	0	0.8	42	62	41	N
8	0	20	64	2.2	5.6	1550	0	0	40	60	54	O
9	0	18	50	10	10	153	0	0	45	62	45	
10	0	17	42	9.2	41	62	0	2.4	39	59	43	
11	0	17	40	11	40	10	0	4.3	33	56	39	
12	0	17	35	11	36	7.0	0	7.2	40	63	28	
13	0	18	33	17	32	10	0	6.2	54	63	38	
14	0	18	28	38	23	0	0	5.3	60	63	50	
15	0	18	17	71	18	0	0	4.3	58	60	55	
16	0	20	16	29	2.6	0	0	2.2	57	64	49	F
17	0	20	16	29	0	0	2.9	3.0	54	60	46	L
18	0	20	16	33	0.1	0	12	8.2	28	60	42	O
19	0.4	20	14	24	2.2	0	13	12	41	56	43	W
20	1.3	20	14	26	3.0	0	10	14	45	58	38	
21	1.7	18	16	55	4.3	0	10	13	41	59	33	
22	1.7	17	17	100	3.9	0	5.3	14	54	60	26	
23	2.2	18	17	44	5.3	0	7.2	13	64	60	19	
24	2.2	18	18	18	11	0	7.2	12	70	57	10	
25	3.9	17	24	21	2.7	0	9.2	7.6	74	54	3.6	
26	6.2	17	20	8.0	15	0	9.2	5.4	74	52	2.4	
27	12	18	17	13	12	0	8.2	6.6	70	51	0.8	
28	17	22	9.9	24	39	0	9.2	7.0	68	50	0	
29	18	20	0	27		0	8.2	7.1	65	48	0.1	
30	23	18	0	29		0	8.2	3.6	65	52	0.1	
31	23	—	0	23	—	0	—	17	—	55	0	—
Mean	3.8	20.4	23.3	31.7	16.5	342	4.0	6.6	51.7	58.1	32.7	0
Ac-Ft	236	1214	1434	1332	919	21000	238	407	3074	3570	2009	0

Maximum Discharge C.F.S. For Water Year 2,880 March 5, 1957
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year
56-57 Water Year 35430

Station located 0.15 mile above the Farmington-Bellota Road Bridge. Flows are regulated by headgates. Mormon Slough diverts from Calaveras River at Mile 25.3L above mouth and rejoins the river through Stockton Diverting Canal at Mile 5.4L above mouth. Period of record December 1948 to date. Records computed by Department of Water Resources.

TABLE 165

STOCKTON DIVERTING CANAL AT STOCKTON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1		0	4.8	0	7.1	*262			0	8.2	0	
2		0	4.2	0	5.8	142			0	1.3	0	
3		4.1	4.8	0	6.1	549			0	0	0	
4		18	4.6	0	7.1	728			0	0	0	
5		7.8	6.4	0	9.9	2000			0	0	1.2	
6		0.7	9.9	0	11	2630			0	0	0.1	
7		0.1	25	0	9.2	2070			0	0	0	
8		2.8	58	0	1.4	1800			0	2.4	0	
9		3.2	49	0	0.1	264			0	0	9.8	
10		2.0	38	0	0	96			2.9	0	4.4	
11		1.0	29	0	17	32			0	0	2.1	
12	N	0.6	22	0	20	9.9	N	N	0	0	3.2	N
13	O	0.3	19	0	17	2.4	O	O	0	0	0.5	O
14		0.1	17	0	11	2.8			0	12	0	
15		0.2	9.9	12	4.2	0.7			0	15	0	
16		0	2.3	34	1.8	0			0	0	1.2	
17		0	1.0	10	0.1	0			0	0.5	2.0	
18		0	1.1	16	0	0			0	*0	0.6	
19		1.2	0.5	14	0	0			0	*0	0.5	
20		1.2	0	11	0	0			0	*0	1.0	
21	F	1.2	0	12	0	0	F	F	0	*0	1.2	F
22	L	1.4	0	74	0	0	L	L	0	*6.1	1.1	L
23		2.0	0.8	62	0	0			11	*7.1	0.2	
24	O	2.6	1.4	54	0	0	O	O	19	*3.2	0	O
25	W	2.7	1.8	38	0	0	W	W	12	1.9	0	W
26		2.6	6.1	48	0	0			19	0	0	
27		2.8	4.8	9.4	0	0			19	0	0	
28		3.2	3.0	25	*8.0	0			14	0	0	
29		7.1	2.0	31		0			7.0	1.8	0	
30		4.8	0.2	17		0			4.3	0.1	0	
31		—	0	12	—	0	—		—	0	0	—
Mean	0	2.5	10.5	15.5	4.9	342	0	0	3.6	1.9	0.9	0
Ac-Ft	0	146	648	951	271	21000	0	0	215	118	58	0

Maximum Discharge C.F.S. For Water Year 3,040 March 6, 1957; Year of Record 9,970 December 24, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 152000; 56-57 Water Year 23410

Station located 300 feet below Waterloo Road bridge. Stockton Diverting Canal enters the Calaveras River at Mile 5.4L above mouth. Period of record January 1944 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 166

BEAR CREEK NEAR LOCKEFORD

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	*0		0	22	0	154	0.1	0				
2	*0		0	22	0	22	0	0				
3	*0		0	22	0	9.5	0	0				
4	*0		0	22	0	47	0	0				
5	*0		0	22	0	534	0	0				
6	*0		0	22	0	194	.1	0				
7	*0		0	22	0	32	.4	0				
8	*0		0	22	0	17	.1	0				
9	*0		0	20	0	38	.1	0				
10	*0		0	21	0	33	.2	0				
11	*0		0	22	0	12	.1	0				
12	*0	N	0	21	0	14	.1	0	N	N	N	N
13	*0	0	0	26	0	18	0	0	0	0	0	0
14	*0		0	19	0	7.9	0	0				
15	*0		0	6.1	0	5.5	0	0				
16	*0		0	.6	0	8.6	0	0				
17	*0	F	0	.2	0	6.6	0	0	F	F	F	F
18	0	L	0	.1	0	3.3	0	.1	L	L	L	L
19	0	0	0	0	0	2.1	2.0	.1	0	0	0	0
20	0	W	0	1.0	0	1.6	1.7	.1	W	W	W	W
21	0		7.5	1.0	0	1.0	1.0	.1				
22	0		19	.5	0	.8	.6	0				
23	0		10	0	.3	.5	.2	0				
24	0		12	0	14	.4	.1	0				
25	0		20	0	63	.1	0	0				
26	0		22	0	9.3	.1	0	0				
27	0		21	0	9.7	.1	0	0				
28	0		22	.1	13	.1	0	0				
29	0		22	.1		.1	0	0				
30	0		22	0		.1	0	0				
31	0	—	22	0	—	.1	—	0	—			—
Mean	0	0	.44	10.2	3.90	37.5	0.23	0.01	0	0	0	0
Ac-Ft	0	0	39	625	217	2310	13	0.8	0	0	0	0

Maximum Discharge C.F.S. For Water Year 954 March 5, 1957; Year of Record 1260 February 2, 1945

Total Discharge Ac.-Ft. For 56-Calendar Year 10750; 56-57 Water Year 3560

Station located below County Road bridge, 0.8 mile southeast of Lockeford. Drainage area is 48.4 square miles. Period of record November 1930 to September 1933; October 1943 to date. (Prior records available at a site 3 miles downstream.) Records computed by U. S. Geological Survey.

* Estimated

TABLE 167

DELTA-MENDOTA CANAL NEAR TRACY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	933	69	0	0	61	1792	2584	2339	2531	3611	3530	2253
2	1071	142	0	0	250	3887	2579	2591	2531	3540	3529	2257
3	1061	0	0	0	0	4417	2550	2542	2596	3431	3536	2049
4	1028	0	0	70	0	3876	2516	2475	2782	3520	3541	1872
5	1027	0	0	249	0	1802	2527	2478	2780	3452	3541	1870
6	1028	0	70	0	63	866	2585	2487	2956	3311	3406	1798
7	1030	0	286	0	995	867	2578	2479	3318	3315	3337	1725
8	1027	0	0	0	3668	869	2581	2477	3333	3321	3313	1728
9	1029	69	0	0	4418	870	2580	2405	3134	3320	3310	1723
10	962	214	0	0	4149	868	2638	2548	3133	3361	3208	1675
11	863	0	71	69	1949	868	2738	2530	3170	3443	3208	1724
12	862	0	286	251	286	868	2736	2530	2866	3631	3212	1729
13	861	0	0	0	69	867	2870	2419	2931	3651	2972	1868
14	860	0	0	0	464	867	2877	2280	3025	3664	2974	1942
15	861	67	71	0	465	933	2873	2135	2924	3662	2975	1728
16	715	286	286	0	681	1134	2744	2013	3014	3659	2972	1726
17	750	0	0	0	866	1130	2746	2029	3043	3660	3036	1731
18	749	0	0	0	865	1467	2314	2028	3117	3512	3037	1731
19	750	0	0	70	929	1467	2287	2019	3052	3503	3041	1730
20	749	70	0	250	1000	1471	1562	1739	3154	3509	3044	1730
21	751	357	0	0	1179	1467	1329	1667	3430	3514	3044	1828
22	608	0	70	0	1294	1464	1332	1572	3597	3450	2978	1828
23	177	0	284	0	1103	1784	1361	1433	3596	3385	2879	1862
24	108	0	0	0	685	2379	1785	1401	3602	3381	2782	1893
25	70	69	0	0	684	2349	1854	1201	3605	3366	2787	1965
26	215	286	0	0	682	2350	1721	1203	3515	3326	2687	2026
27	0	0	69	0	684	2247	1723	1671	3617	3328	2681	2029
28	0	0	251	0	613	2248	1800	1747	3624	3328	2676	2025
29	69	58	0	0		2259	1936	2288	3626	3340	2503	2525
30	144	286	0	0		2349	2341	2537	3620	3445	2402	2023
31	0	—	0	0	—	2352	—	2534	—	3667	2402	—
Mean	657	65.8	56.3	30.9	1004	1756	2288	2122	3174	3471	3050	1875
Ac-Ft	40380	3910	3460	1900	55740	108000	136200	130500	188900	213400	187500	111600

Maximum Discharge C.F.S. For	Water Year		Total Discharge Ac.-Ft. For	56-Calendar Year	675300
	Year of Record			56-57 Water Year	1181000

Station located 6 miles southeast of Byron 10 miles northwest of Tracy. These flows are diversions from Old River by the Tracy Pumping Plant. Period of record June 1951 to date. Records computed by U. S. Bureau of Reclamation.

TABLE 168

MOKELUMNE RIVER AT LANCHA PLANA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	581	593	715	365	137	710	694	672	3250	533	532	512
2	597	615	715	301	121	710	704	694	4320	533	526	512
3	543	599	715	379	195	710	704	694	4440	532	537	515
4	587	578	720	354	122	728	704	694	3450	532	542	518
5	601	641	710	366	120	1270	704	694	3280	533	554	517
6	595	598	710	375	126	1870	704	694	3060	529	560	507
7	584	715	715	371	112	1870	704	694	3260	530	553	504
8	632	715	715	398	130	1900	699	694	1690	541	555	513
9	630	715	715	324	96	1920	699	694	2540	544	555	514
10	630	715	715	351	128	1210	699	694	2500	543	553	517
11	582	715	715	351	124	710	699	694	1120	542	554	496
12	582	715	715	353	124	716	699	688	1870	541	534	530
13	582	715	715	347	130	710	699	677	1900	542	542	513
14	587	715	704	342	117	710	699	694	1850	542	538	508
15	595	715	715	354	122	710	699	694	1380	542	546	506
16	602	715	715	356	61	710	699	694	1190	541	575	508
17	606	715	710	346	58	710	699	694	890	539	572	510
18	608	715	710	345	137	710	694	694	1170	539	569	508
19	590	715	710	341	139	710	694	694	1260	541	569	512
20	591	715	710	360	115	710	694	699	1320	537	558	518
21	596	715	710	348	142	710	694	699	1270	537	543	515
22	592	715	710	359	153	710	694	699	1170	537	540	514
23	603	715	710	396	136	704	694	699	830	538	551	518
24	606	715	710	327	207	704	694	699	938	538	554	514
25	600	715	710	324	167	704	688	699	938	554	564	519
26	600	715	710	347	154	704	688	704	902	537	554	516
27	601	715	710	335	154	684	694	704	842	537	558	525
28	596	715	710	345	388	704	694	704	800	538	559	524
29	598	715	710	345		704	694	944	770	534	552	483
30	600	715	710	375		704	694	2130	682	555	534	532
31	598	—	710	322	—	704	—	2810	—	558	571	—
Mean	597	693	712	352	140	895	697	817	1829	539	552	513
Ac-Ft	36680	41220	43780	21620	7770	55020	41490	50240	108900	33160	33930	30540

Maximum Discharge C.F.S. For	Water Year	4,960 June 2, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	1052000
	Year of Record	36,700 November 21, 1950		56-57 Water Year	504400

Station loc ted 3 miles below Pardee Dam. Drainage area is 584 square miles. Period of record June 1926 to date. Records computed by U. S. Geological Survey.

TABLE 169

MOKELUMNE RIVER NEAR CLEMENTS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	524	563	710	402	250	812	686	668	3090	535	493	490
2	556	574	710	256	129	721	696	689	3900	524	514	504
3	524	574	710	319	125	728	696	686	4810	521	528	496
4	530	552	714	384	129	824	696	686	3830	518	528	496
5	574	619	717	307	122	1470	696	682	3250	521	535	496
6	563	577	703	353	121	2020	696	682	3080	521	546	490
7	549	703	706	360	127	1930	696	678	2420	521	528	490
8	602	703	710	388	105	1910	696	678	1610	535	528	496
9	602	703	710	356	129	1960	696	682	2300	535	528	490
10	602	706	706	346	125	1170	696	682	2420	535	521	496
11	542	706	706	350	128	738	692	682	1440	535	524	500
12	542	703	703	353	124	734	692	678	1450	535	518	496
13	542	703	703	339	124	720	689	672	1940	535	524	500
14	542	706	700	342	133	717	706	682	1750	532	514	482
15	556	706	703	346	126	717	696	682	1430	532	521	496
16	577	706	703	332	131	717	692	678	1160	532	549	504
17	563	706	703	350	63	714	706	678	952	532	549	504
18	577	706	703	342	62	710	720	700	1040	524	549	493
19	552	703	703	336	145	710	703	703	1230	524	549	496
20	556	710	703	364	149	706	700	706	1280	528	542	507
21	563	710	700	342	138	706	696	703	1240	528	524	504
22	549	710	703	350	147	703	696	703	1130	528	514	504
23	574	710	703	406	189	703	692	703	880	528	532	500
24	574	710	700	320	155	703	689	703	884	528	524	504
25	566	710	700	339	288	703	689	703	936	542	546	507
26	566	710	696	367	178	703	689	703	876	518	535	507
27	566	714	696	332	169	686	689	703	832	518	542	510
28	566	710	696	336	287	700	689	700	780	524	549	507
29	566	710	696	336		703	686	793	756	518	535	468
30	580	710	696	339		700	686	1800	389	546	514	524
31	563	—	696	332	—	700	—	2590	—	570	563	—
Mean	562	681	703	346	146	917	695	790	1770	530	531	499
Ac-Ft	34530	40530	43260	21270	8130	56410	41350	48550	105300	32570	32660	29670

Maximum Discharge C.F.S. For	Water Year	5,120 June 3, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	1029000
	Year of Record	28,800 November 21, 1950		56-57 Water Year	494200

Station located 1.0 mile north of Clements, 700 feet above the highway bridge, Mile 39.35 above New Hope Bridge. Drainage area is 630 square miles. Period of record October 1904 to date. Records computed by U. S. Geological Survey.

TABLE 170

MOKELUMNE RIVER AT WOODBRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	219	457	700	615	295	479	515	409	2210	208	101	251
2	243	470	697	350	172	702	503	420	2590	130	76	171
3	333	468	695	309	131	699	487	415	3450	104	73	156
4	220	472	697	332	122	743	451	366	4130	83	87	147
5	305	474	709	337	113	992	453	404	3290	86	97	148
6	346	522	690	319	110	1700	447	382	2940	84	103	167
7	364	679	690	329	112	1800	449	362	2580	85	109	161
8	371	1040	693	329	105	1790	447	362	1740	88	106	161
9	449	746	693	337	105	1820	413	362	1670	81	91	163
10	421	723	690	311	109	1810	394	367	2010	80	102	161
11	391	711	688	305	110	1010	367	390	1850	82	119	170
12	330	706	688	313	104	821	388	394	945	86	116	183
13	322	706	688	337	101	784	385	394	1640	92	97	185
14	338	704	688	309	102	768	487	374	1460	105	91	205
15	360	706	681	309	101	764	479	379	1440	107	98	227
16	350	706	690	313	102	761	467	382	980	92	181	254
17	348	706	688	298	84	754	569	304	837	82	171	239
18	353	706	688	308	60	750	619	529	539	85	176	229
19	350	706	686	308	75	745	587	515	990	82	163	240
20	364	704	688	324	107	741	547	515	920	89	138	218
21	382	709	688	317	109	738	562	513	959	151	124	240
22	391	709	686	301	110	736	562	511	872	89	116	310
23	425	705	686	306	125	734	550	519	690	92	128	271
24	476	704	684	333	126	732	477	511	413	86	156	264
25	459	704	681	300	230	732	443	503	511	79	188	260
26	453	704	684	300	219	365	395	499	465	84	181	269
27	463	704	684	305	181	336	400	361	394	88	159	261
28	463	704	681	290	172	495	397	382	342	98	145	337
29	468	702	684	295		527	356	362	349	111	148	343
30	482	702	679	301		515	361	884	314	103	152	332
31	480	—	679	300	—	513	—	1710	—	102	169	—
Mean	378	672	688	324	128	866	465	477	1451	97.2	128	224
Ac-Ft	23240	39990	42330	19910	7120	53270	27680	29320	86320	5980	7860	13330

Maximum Discharge C.F.S. For	Water Year	4,350 June 4, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	902100
	Year of Record	27,000 November 22, 1950		56-57 Water Year	356400

Station located at Mile 19.3 above New Hope Bridge, 0.4 mile below diversion dam of Woodbridge Irrigation District. Drainage area is 644 square miles. Period of record May 1924 to date. Records computed by U. S. Geological Survey.

TABLE 171

DRY CREEK NEAR GALT

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1				0	4.8	589	78	26	36			
2				0	4.5	342	73	25	31			
3				0	5.0	236	60	26	26			
4				0	5.5	593	57	26	21			
5				0	4.5	2530	52	22	12			
6				0	3.4	2550	50	17	5.7			
7				0	3.2	922	47	15	2.6			
8				0	4.0	553	45	12	.7			
9				0	28	698	39	7.2	.2			
10				0	35	662	36	8.7	.3			
11				0	24	448	36	15	.8			
12				0	27	433	33	12	0			
13	N	N	N	0	26	387	32	8.7	0	N	N	N
14	O	O	O	0	21	328	48	8.2	0	O	O	O
15				0	18	280	97	12	0			
16				0	13	336	65	16	0			
17	F	F	F	0	9.5	260	54	9.2	0	F	F	F
18	L	L	L	0	8.1	196	125	16	0	L	L	L
19	O	O	O	0	6.4	168	151	686	0	O	O	O
20	W	W	W	0	5.2	144	113	561	0	W	W	W
21				40	7.8	120	89	476	0			
22				42	34	104	76	313	0			
23				18	64	94	66	213	0			
24				10	241	87	59	154	0			
25				5.8	1390	80	52	119	0			
26				20	596	75	46	91	0			
27				36	440	69	39	74	0			
28				23	267	64	35	60	0			
29				14		64	31	53	0			
30				9.2		70	28	48	0			
31		—		6.4	—	72	—	43	—			—
Mean	0	0	[illegible]	7.24	118	437	60.4	102	4.54	0	0	0
Ac-Ft	0	0	0	445	6540	26880	3590	6290	270	0	0	0

Maximum Discharge C.F.S. For	Water Year	3,600 March 5, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	135500
	Year of Record	17,000 December 24, 1955		56-57 Water Year	44020

Station located at Dustin Road bridge, 4 miles east of Galt. Also known as "Dry Creek at Dustin Road". Drainage area is 325 square miles. Period of record December 1926 to September 1933; October 1944 to date. Records computed by U. S. Geological Survey.

TABLE 172

COSUMNES RIVER AT MICHIGAN BAR

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	25	158	48	55	92	1150	722	412	602	77	20	13
2	24	101	48	53	101	920	634	458	521	76	23	12
3	23	84	48	53	117	950	570	514	494	74	20	13
4	24	76	49	55	101	1690	556	434	470	72	20	12
5	23	68	90	55	94	6190	542	418	434	66	21	11
6	24	62	179	55	92	4180	570	429	402	65	17	11
7	27	60	110	58	92	2560	549	434	365	65	19	10
8	28	60	82	59	121	1990	507	440	345	66	22	12
9	27	59	65	71	274	2100	482	446	312	65	19	12
10	31	58	65	68	203	1790	470	464	330	60	22	12
11	33	56	68	55	206	1460	458	418	290	53	22	10
12	34	56	74	68	294	1640	440	407	258	52	21	9.0
13	45	56	79	146	262	1540	424	375	232	49	19	13
14	41	55	79	345	274	1290	710	385	215	46	19	11
15	35	55	77	185	262	1200	758	385	197	48	18	12
16	34	52	72	132	236	1390	586	350	185	46	18	12
17	31	52	68	108	246	1110	578	335	170	43	16	12
18	31	52	65	95	250	985	930	610	152	41	16	14
19	32	52	64	88	218	900	803	2750	140	41	16	15
20	35	51	60	221	206	812	650	2200	130	38	15	16
21	38	49	59	335	243	749	578	2020	123	38	15	16
22	37	48	56	182	434	695	542	1720	117	36	15	15
23	40	51	55	138	813	634	514	1480	112	38	14	15
24	55	51	55	119	1810	586	476	1290	104	36	14	14
25	85	49	59	110	4670	556	458	1090	99	31	13	13
26	65	49	55	135	2210	535	434	963	92	31	14	13
27	70	49	53	128	2060	514	424	900	87	30	13	14
28	103	49	52	99	1450	500	418	812	82	29	12	15
29	88	49	52	101		535	418	740	79	28	13	16
30	80	49	56	94		613	412	668	77	28	12	18
31	170	—	55	92	—	660	—	628	—	28	13	—
Mean	46.4	60.5	67.6	118	623	1391	594	80[illegible]	[illegible]	47.3	[illegible]	[illegible]
Ac-Ft	[illegible]	3630	419[illegible]	050	34570	84330	35980	49530	1431[illegible]	2910	1190	78[illegible]

Maximum Discharge C.F.S. For	Water Year	6,930 March 5, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	47910[illegible]
	Year of Record	42,000 December 23, 1955		56-57 Water Year	23800[illegible]

Station located at highway bridge at Michigan Bar, Mile 34.3 above mouth. Drainage area is 537 square miles. Period of record October 1907 to date. Records computed by U. S. Geological Survey.

TABLE 173

COSUMNES RIVER AT McCONNELL

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	0	169	33	40	84	1420	656	400	603	50		
2	0	125	33	40	84	1060	648	415	558	38		
3	0	88	32	39	96	832	578	495	508	28		
4	0	69	33	39	100	1280	540	451	479	39		
5	0	58	35	39	88	4730	526	415	454	38		
6	0	50	102	39	82	7220	526	412	421	32		
7	0	46	140	39	79	4050	547	424	379	15		
8	0	43	90	41	83	2270	505	433	346	33		
9	0	42	67	42	151	2040	469	433	318	21		
10	0	40	55	53	221	2130	451	442	318	13		
11	0	39	52	48	169	1600	445	418	340	7.1		
12	0	38	53	40	225	1460	430	397	282	0	N	N
13	0	38	56	61	255	1700	400	382	236	0	0	0
14	0	38	59	223	239	1400	466	362	204	0		
15	8.9	38	59	250	250	1210	780	382	187	0		
16	9.8	37	58	158	231	1420	600	351	175	0		
17	8.0	35	54	119	209	1280	540	320	155	0	F	F
18	5.6	34	49	98	233	1060	728	348	148	0	L	L
19	3.2	34	47	83	215	944	849	2130	131	0	O	O
20	5.6	34	47	94	191	854	720	2400	121	0	W	W
21	15	34	45	285	191	772	617	2220	113	0		
22	15	34	44	245	310	712	547	1880	108	0		
23	11	34	43	161	396	652	512	1580	105	0		
24	6.4	34	40	128	1250	603	485	1360	105	0		
25	22	34	41	112	3820	572	454	1140	87	0		
26	110	34	43	119	2940	547	433	998	74	0		
27	80	34	40	128	2420	522	418	912	62	0		
28	78	34	39	112	1630	498	412	828	75	0		
29	114	33	38	95		498	406	764	71	0		
30	111	33	38	94		617	409	688	58	0		
31	108	—	40	88	—	652	—	638	—	0		—
Mean	23.0	47.8	51.8	102	580	1503	537	801	241	10.1	0	0
Ac-Ft	1410	2840	3180	6250	32220	92440	31930	49230	14320	623	0	0

Maximum Discharge C.F.S. For Water Year 7,710 March 6, 1957
Year of Record 54,000 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 519100
56-57 Water Year 234400

Station located at U. S. Highway 99 bridge, Mile 10.7 above mouth. When flow in main channel reaches 4,600 c.f.s., water starts to bypass station. Figures given include all overflow. Drainage area is 730 square miles. Period of record January 1942 to date. Records computed by U. S. Geological Survey.

TABLE 174

CONTRA COSTA CANAL NEAR OAKLEY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	72	50	42	51	48	36	44	64	77	129	105	107
2	77	50	43	43	49	37	64	66	86	104	140	105
3	76	50	41	43	51	36	76	66	90	109	131	110
4	73	50	41	46	48	36	65	72	96	102	135	116
5	79	47	41	45	49	33	59	79	101	109	128	120
6	81	50	40	40	46	34	51	79	99	109	121	120
7	75	38	49	48	45	36	73	78	93	106	124	121
8	77	46	42	50	48	37	69	71	92	111	126	126
9	74	42	42	51	49	36	67	65	89	106	132	125
10	75	49	40	51	48	37	55	64	90	114	131	121
11	72	44	41	51	49	36	50	64	89	115	125	116
12	72	45	44	50	49	37	60	63	94	117	121	114
13	73	45	48	50	49	37	72	59	96	122	125	119
14	75	46	52	46	52	37	63	62	101	118	127	116
15	75	45	51	46	54	36	80	62	103	117	124	113
16	71	43	53	52	53	36	86	66	97	121	121	101
17	78	43	51	52	54	37	88	62	98	115	119	114
18	81	40	48	48	52	36	76	61	106	117	119	115
19	79	43	47	48	50	38	60	57	112	123	119	113
20	79	43	52	50	50	51	49	55	110	135	118	108
21	76	42	57	49	46	39	49	56	112	128	118	108
22	73	42	53	51	48	39	50	55	113	127	119	107
23	69	45	54	48	47	40	60	54	112	127	121	109
24	78	43	50	48	46	42	63	53	130	132	123	109
25	75	43	45	50	49	65	64	55	121	131	120	108
26	72	40	45	51	47	57	67	55	127	135	119	107
27	71	40	41	50	47	62	70	61	111	130	116	102
28	64	42	46	50	37	60	a 73	65	111	128	117	103
29	61	39	52	44		69	71	65	110	128	119	b 101
30	54	42	46	50		42	72	68	107	128	114	97
31	52	—	49	49	—	38	—	73	—	132	108	—
Mean	72.9	44.2	46.6	48.7	48.6	41.7	64.9	63.7	102	120	122	112
Ac-Ft	4480	2633	2869	2997	2698	2563	3854	3917	6095	7388	7507	6655

Maximum Discharge C.F.S. For Water Year
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year 45180
56-57 Water Year 53660

Station located 0.7 mile east of Oakley, 2.6 miles northwest of Knightsen. These flows are diversions from Rock Slough at Pumping Plant No. 1. Period of record February 1950 to date. Records computed by U. S. Bureau of Reclamation.
(a) 23-hour day
(b) 25-hour day

TABLE 175

KINGS RIVER AT PIEDRA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	121	44	41	119	293	565	1770	1510	3900	7350	5280	1850
2	93	39	56	325	296	565	1470	1470	3880	7350	5160	1830
3	53	40	61	376	306	932	1510	1490	4000	7150	4960	1840
4	49	40	68	424	309	1020	1540	1510	3560	6750	4640	1770
5	70	40	74	432	312	1090	1550	1590	3860	6820	4590	1750
6	38	43	78	500	312	1120	1590	1740	4520	6840	4550	1690
7	28	44	69	510	312	1130	1550	1860	4750	6840	4530	1640
8	28	43	74	510	309	1160	1550	1960	4870	6930	4630	1610
9	27	43	75	492	312	1180	1390	2020	4960	6820	4580	1690
10	27	44	75	487	296	1390	1320	2030	5350	6750	4420	1700
11	26	39	74	487	293	1410	1210	1860	5510	6690	4470	1700
12	62	38	74	492	201	1440	1200	1620	5350	6710	4460	1640
13	171	41	100	482	184	1510	1180	1560	5550	6710	4460	1570
14	173	41	104	343	150	1510	1180	1510	5790	6690	4410	1490
15	178	33	106	376	154	1510	1320	1430	4820	6710	3350	1480
16	128	31	106	416	154	1530	1470	1400	4010	6950	3160	1500
17	119	31	158	354	152	1530	1280	1470	4020	7000	3130	1290
18	95	31	167	380	152	1510	1070	1280	4160	7040	3200	1210
19	58	31	167	404	178	1510	1020	932	4990	7150	3220	1150
20	56	33	169	412	196	1540	1020	710	6090	7020	3190	1250
21	59	33	178	319	201	1510	984	754	6500	7000	3190	1310
22	59	33	178	319	211	1360	868	694	6580	6930	3160	1400
23	62	32	175	312	234	1330	868	738	6540	6860	3130	1470
24	59	32	178	312	271	1420	868	744	6670	5880	3100	1490
25	59	25	178	312	303	1400	868	749	7020	5250	3090	1470
26	59	25	158	299	293	1390	874	1860	7300	5230	3080	1390
27	58	26	119	260	369	1390	919	2070	7820	5280	2980	1120
28	58	30	121	251	482	1550	938	2580	7820	5330	2980	1040
29	56	30	119	245		1620	938	2620	7580	5420	2950	1040
30	58	30	119	254		1670	1350	2650	7550	5420	2900	862
31	56	—	119	283	—	1760	—	3140	—	5400	2050	—
Mean	72.3	35.5	114	371	258	1340	1222	1598	5511	6525	3774	1475
Ac-Ft	4450	2110	7020	22780	14350	82420	72720	98280	327900	401200	232100	87750

Maximum Discharge C.F.S. For	Water Year	8,680 June 27, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	2313000
	Year of Record	91,000 November 19, 1950		56-57 Water Year	1353000

Station located 0.5 mile below highway bridge at Piedra. Drainage area is 1694 square miles. Kings River is a tributary to the Tulare Lake area. At times, during high stages, it flows into the San Joaquin River via James Bypass. Period of record September 1895 to date. Records computed by U. S. Geological Survey.

TABLE 176

SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	25			0	31					0	209	117
2	0			0	31					0	223	118
3	0			0	31					0	218	128
4	0			0	30					80	208	131
5	0			0	30					100	194	132
6	0			0	30					78	150	128
7	0			0	29					41	151	132
8	0			4	27					69	155	136
9	0			11	31					97	160	138
10	0			15	33					112	166	138
11	0			15	32					90	164	132
12	0	N	N	15	32	N	N	N	N	94	158	110
13	0	0	0	15	16	0	0	0	0	100	151	85
14	0			20	0					93	142	60
15	0			25	0					103	148	54
16	0			23	0					92	148	54
17	0	F	F	21	0	F	F	F	F	77	145	56
18	0	L	L	21	0	L	L	L	L	76	147	50
19	0	O	O	23	0	O	O	O	O	85	150	43
20	0	W	W	20	0	W	W	W	W	98	159	34
21	0			23	0					113	154	26
22	0			24	0					127	159	25
23	0			24	0					141	164	25
24	0			28	0					141	169	24
25	0			33	0					132	172	24
26	0			33	0					121	182	51
27	0			31	0					118	174	65
28	0			31	0					130	158	64
29	0			31						131	158	38
30	0			31						153	166	27
31	0	—		31	—		—		—	190	129	—
Mean	0.8	0	0	17.7	13.7	0	0	0	0	96.2	166	78.2
Ac-Ft	50	0	0	1087	760	0	0	0	0	5915	10177	4651

Maximum Discharge C.F.S. For	Water Year		Total Discharge Ac.-Ft. For	56-Calendar Year	31460
	Year of Record			56-57 Water Year	22640

Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records computed by Kings River Water Association.

TABLE 177

CROSS CREEK BELOW LAKELAND CANAL #2

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1								0				
2								0				
3								0				
4								0				
5								0				
6								0				
7								0				
8								0				
9								0				
10								0				
11								0				
12								0				
13	N	N	N	N	N	N	N	0	N	N	N	N
14	0	0	0	0	0	0	0	0	0	0	0	0
15								0				
16								0				
17	F	F	F	F	F	F	F	0	F	F	F	F
18	L	L	L	L	L	L	L	0	L	L	L	L
19	0	0	0	0	0	0	0	0	0	0	0	0
20	W	W	W	W	W	W	W	200	W	W	W	W
21								50				
22								0				
23								0				
24								0				
25								0				
26								0				
27								0				
28								0				
29								0				
30								0				
31		—			—		—	0	—			—
Mean	0	0	0	0	0	0	0	8.1	0	0	0	0
Ac-Ft	0	0	0	0	0	0	0	496	0	0	0	0

Maximum Discharge C.F.S. For Water Year —
Year of Record —

Total Discharge Ac.-Ft. For 56-Calendar Year 15530
56-57 Water Year 496

Station located below the Cross Creek weir, 4 miles east of Guernsey. Cross Creek is a tributary of the Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Period of record 1921 to date. Records computed by Corcoran Irrigation District.

TABLE 178

KAWEAH RIVER NEAR THREE RIVERS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	49	99	54	60	106	572	330	804	2350	590	103	52
2	51	80	54	60	110	494	305	825	2620	536	99	51
3	52	86	54	58	108	434	310	860	2880	506	95	48
4	67	82	54	60	108	375	355	979	2850	482	91	45
5	104	82	69	62	99	355	450	1060	2690	460	89	44
6	92	86	115	62	106	385	511	1180	2510	425	89	42
7	82	82	84	62	118	390	484	1130	2460	380	87	42
8	82	82	72	62	328	396	489	1030	2220	360	87	44
9	76	80	70	57	365	434	472	867	1880	330	83	42
10	72	78	78	55	226	462	506	804	1590	330	77	42
11	70	74	78	62	330	401	528	766	1420	302	73	44
12	76	70	82	65	370	370	506	712	1610	280	71	45
13	78	70	88	540	418	340	516	688	1980	263	67	45
14	74	76	88	250	355	315	594	712	1750	243	65	45
15	70	70	82	142	300	295	522	682	1460	227	63	44
16	67	67	78	115	290	380	472	730	1260	219	62	44
17	62	65	76	104	286	330	484	766	1350	203	60	49
18	64	65	72	97	258	310	616	2660	1400	192	57	93
19	64	62	70	92	241	295	500	6840	1430	181	57	73
20	62	60	67	128	222	281	538	2330	1390	174	54	63
21	58	58	67	145	199	276	538	1930	1260	164	52	59
22	55	60	62	118	189	268	484	1640	1140	157	52	54
23	60	57	64	113	321	254	445	1470	1130	145	55	49
24	67	57	67	101	350	245	472	1260	1100	142	54	46
25	74	55	64	101	741	254	572	1240	1100	133	52	48
26	72	54	64	137	500	281	599	1420	1060	128	51	46
27	69	51	62	106	396	300	670	1680	944	122	49	45
28	67	49	60	110	370	315	748	1730	892	120	49	45
29	69	54	60	99		315	804	1590	801	112	49	46
30	72	54	58	97		310	748	1580	674	108	51	48
31	97	—	60	97	—	320	—	1930	—	108	52	—
Mean	70.1	68.8	70.1	110	279	347	519	1416	1640	262	67.6	49.4
Ac-Ft	4310	4100	4310	6780	15490	21330	30880	87060	97590	16110	4160	2940

Maximum Discharge C.F.S. For Water Year 15,300 May 19, 1957
Year of Record 80,700 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 545600
56-57 Water Year 295100

Station located 3 miles southwest of Three Rivers post office. Drainage area is approximately 520 square miles. Kaweah River is a tributary of the Tulare Lake area. Period of record Febru ry 1936 to date. (Prior records available at a site 2 miles upstream.) Records computed by the U. S. Geological Survey.

TABLE 179

NORTH FORK TULE RIVER AT SPRINGVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1						88	21	56	61	1.4	1.4	0.1
2						79	20	48	54	1.4	1.3	0.1
3						70	17	42	48	1.0	0.6	0.1
4						54	16	37	43	0.7	0.4	0.1
5						46	16	32	37	0.6	0.4	0.1
6						45	18	30	35	0.6	0.4	0.1
7						44	19	31	34	0.3	0.4	0.2
8						42	16	32	32	0.2	0.3	0.1
9						57	14	30	32	0.5	0.3	0.1
10						75	14	28	46	0.4	0.4	0.1
11						53	13	40	39	0.5	0.7	0.1
12						46	13	48	32	0.5	0.6	0.2
13						42	13	42	28	0.5	0.6	0.1
14					*39	37	16	42	27	0.3	0.4	0.1
15					35	34	17	45	21	0.4	0.3	0.1
16					32	50	16	44	20	0.4	0.3	0.2
17					29	39	25	40	16	0.4	0.2	0.2
18					25	34	67	148	14	0.2	0.2	0.3
19					24	31	42	946	13	0.2	0.2	0.2
20					21	30	48	319	12	0.1	0.2	0.1
21					19	30	52	276	11	0.1	0.2	0.1
22					17	29	47	214	9.9	0.2	0.2	0.1
23					26	26	41	169	8.3	0.2	0.4	0.1
24					35	24	42	137	5.4	0.3	0.2	0.9
25					82	24	50	121	3.5	0.3	0.4	0.9
26					58	23	54	111	3.0	0.4	0.4	0.2
27					46	23	65	101	2.0	0.4	0.3	0.2
28					46	22	73	91	1.5	0.4	0.2	0.1
29						22	70	82	1.3	0.6	0.2	0.1
30						22	63	72	1.2	0.7	0.2	0.3
31		—			—	22	—	66	—	0.7	0.2	—
Mean						40.7	33.3	114	23.0	0.5	0.4	0.2
Ac-Ft						2505	1980	6982	1371	30	25	11

Maximum Discharge C.F.S. For Water Year
Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year
56-57 Water Year

Station located at the Springville bridge. Period of record February 14, 1957 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 180

TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	2.2	40	11	45	52	191	109	150	270	19	2.3	0.1
2	2.8	31	11	43	52	201	105	141	263	17	2.0	.1
3	3.8	29	10	42	50	194	97	130	251	15	1.8	0
4	15	28	10	42	50	156	97	124	235	14	1.5	0
5	55	26	18	33	50	141	104	116	215	12	1.4	0
6	41	25	62	18	50	136	109	116	199	11	1.5	0
7	40	24	44	18	54	139	109	118	188	10	1.4	0
8	32	22	33	21	182	136	105	122	171	8	1.2	0
9	29	19	27	18	210	141	98	114	161	6.6	1.3	0
10	27	18	25	21	128	215	85	105	196	5.5	1.2	0
11	27	18	23	20	143	161	62	114	173	5.8	1.2	0
12	30	18	23	23	159	145	58	145	147	5.4	1.1	0
13	30	18	24	163	161	132	55	136	134	4.6	.9	0
14	27	17	24	159	141	126	64	126	122	4.4	.7	0
15	26	18	22	104	122	122	81	136	112	5.6	.6	0
16	25	18	20	87	114	164	68	132	107	9.1	.5	0
17	22	18	20	79	107	141	68	122	92	8.9	.2	0
18	21	18	18	64	104	126	199	201	79	7.1	.2	1.1
19	21	18	17	45	93	128	147	3160	67	4.8	.4	2.3
20	22	18	14	72	85	134	141	1100	62	5.1	.2	.9
21	20	18	14	98	84	130	143	865	60	3.8	.1	1.2
22	17	18	18	68	79	126	141	684	55	3.6	.1	1.1
23	16	15	23	58	87	114	126	610	50	3.1	.1	1.0
24	18	13	30	54	116	110	128	470	41	2.8	.1	1.0
25	19	13	28	49	195	109	139	401	30	3.2	.1	1.0
26	19	13	27	74	147	109	147	358	30	3.7	0	.8
27	20	13	35	73	114	107	161	313	25	3.1	0	.5
28	21	11	45	66	110	107	173	310	23	2.7	0	.4
29	22	14	43	60		105	168	306	22	2.7	0	.5
30	21	12	42	56		107	161	289	20	2.4	0	.5
31	29	—	42	52	—	107	—	283	—	2.2	.1	—
Mean	23.3	19.4	25.9	58.9	109	137	115	371	120	6.85	0.72	0.42
Ac-Ft	1430	1150	1590	3620	6030	8450	6840	22809	7140	421	44	25

Maximum Discharge C.F.S. For Water Year 4,750 May 19, 1957
Year of Record 27,000 December 23, 1955

Total Discharge Ac.-Ft. For 56-Calendar Year 161900
56-57 Water Year 59540

Station located 1.0 mile above the head of Porter Slough, Mile 2.2 below the confluence of South Fork Tule River. Drainage area is 395 square miles. Period of record October 1944 to date. Records computed by U. S. Geological Survey.

TABLE 181

TULE RIVER NEAR PORTERVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	6.0	32	24	33	50	186	83	144	220	27	4.3	1.2
2	6.2	30	24	32	50	179	80	130	215	25	3.4	1.0
3	6.8	32	24	32	50	172	73	121	206	24	2.8	1.0
4	19	32	25	33	50	138	74	117	197	22	2.6	1.0
5	34	30	31	34	49	121	82	112	184	21	3.1	1.2
6	26	29	52	34	49	116	89	112	175	19	3.1	1.3
7	26	30	41	33	50	116	90	121	169	16	2.6	1.2
8	24	28	37	33	145	114	84	125	158	16	2.8	1.2
9	23	27	33	32	154	128	79	112	152	15	3.1	1.0
10	22	26	32	33	98	179	72	102	179	14	2.4	1.0
11	21	26	32	33	121	134	65	116	152	12	2.0	1.0
12	24	27	33	35	134	119	64	136	137	12	2.0	.9
13	24	27	35	164	136	109	62	128	132	12	1.9	1.0
14	24	28	36	116	221	100	70	123	121	12	1.8	1.4
15	24	27	36	74	104	95	77	126	113	12	1.6	1.6
16	24	27	35	62	98	130	66	123	108	11	1.3	1.9
17	24	27	35	55	92	109	73	116	96	11	1.3	2.2
18	24	26	34	52	86	98	186	203	84	10	1.4	7.8
19	24	26	33	49	79	97	130	2450	75	12	1.3	6.4
20	24	26	33	64	73	94	130	899	72	12	1.3	8.6
21	21	27	32	76	67	90	134	696	69	9.6	1.3	8.6
22	18	27	32	60	64	89	126	525	64	8.6	1.8	7.3
23	18	25	34	54	77	82	112	433	58	8.2	1.4	6.4
24	19	24	35	51	97	79	110	360	50	6.8	1.2	4.6
25	20	24	34	48	204	76	123	330	40	6.4	1.0	3.7
26	21	24	33	69	154	74	130	310	39	5.6	1.0	2.8
27	22	25	32	62	125	76	150	290	37	5.6	1.0	2.2
28	24	24	32	56	117	77	159	275	34	5.2	1.0	2.2
29	24	24	32	54		79	157	260	32	4.9	1.0	2.2
30	23	24	32	52		80	150	245	29	4.6	1.0	2.6
31	27	—	32	50	—	80	—	230	—	4.0	1.2	—
Mean	31.5	27.0	33.1	53.7	99.8	110	103	309	113	12.4	1.90	2.88
Ac-Ft	1320	1610	2030	3300	5540	6780	6110	18980	6740	763	117	172

Maximum Discharge C.F.S. For	Water Year	4,430 May 19, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year 120600
	Year of Record	25,500 November 19, 1950		56-57 Water Year 53460

Station located at highway bridge 1.0 mile above the confluence of South Fork Tule River. Drainage area is 261 square miles. Period of record May 1901 to date. Records computed by U. S. Geological Survey.

TABLE 182

FRIANT-KERN CANAL TO TULE RIVER

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	0	186			0	0	298	0	311	328	361	510
2	0	297			0	0	298	0	324	283	332	510
3	0	289			0	0	298	0	311	273	332	498
4	0	263			0	0	283	0	306	273	334	490
5	14	247			0	0	264	0	292	274	424	490
6	8	238			0	0	265	0	280	344	412	490
7	0	214			0	0	269	0	287	384	390	490
8	0	200			0	0	269	0	291	386	390	482
9	0	221			0	0	269	0	298	384	390	478
10	147	232			0	180	48	0	328	372	390	392
11	351	238			0	442	0	0	344	364	390	347
12	351	230	N	N	0	462	0	0	342	366	390	349
13	351	219	O	O	0	392	0	0	340	364	390	349
14	320	214			0	362	0	0	340	364	390	347
15	280	212			0	355	0	0	345	364	390	330
16	260	206			0	355	0	0	54	323	460	324
17	266	204	F	F	0	334	0	0	0	309	512	287
18	266	206	L	L	0	319	0	0	0	315	512	269
19	266	208	O	O	0	315	0	0	0	315	512	269
20	266	197	W	W	0	242	0	0	0	315	512	304
21	241	193			0	206	0	0	183	420	512	324
22	232	75			0	228	0	0	353	442	512	324
23	241	0			0	251	0	0	353	416	512	324
24	232	0			0	232	0	0	353	410	512	319
25	29	0			148	217	0	0	370	408	512	321
26	0	0			216	276	0	91	378	410	510	334
27	0	0			18	304	0	190	378	410	512	355
28	0	0			0	304	0	203	382	410	512	364
29	0	0				304	0	247	396	406	512	364
30	0	0				304	0	262	386	408	512	57
31	0	—			—	300	—	282	—	410	512	—
Mean	133	160	0	0	13.6	216	85.4	41.1	278	363	447	370
Ac-Ft	8174	9499	0	0	758	13258	5080	2529	16513	22314	27458	21999

Maximum Discharge C.F.S. For	Water Year		Total Discharge Ac.-Ft. For	56-Calendar Year 138400
	Year of Record			56-57 Water Year 127600

These flows are deliveries from Friant-Kern Canal into Tule River under contract agreements with the U. S. Bureau of Reclamation. Delivery is located on the Tule River approximately 4 miles west of Porterville, Mile 11.3 below confluence of South Fork Tule River. Records computed by U. S. Bureau of Reclamation.

TABLE 183

TULE RIVER BELOW PORTERVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1						0	358	0	350	354	326	505
2						0	346	0	342	285	297	505
3						0	334	0	313	257	297	488
4						0	317	0	301	261	305	488
5						0	305	0	281	261	404	482
6						0	309	0	267	338	395	486
7						0	317	0	271	414	362	478
8						0	326	0	267	386	358	451
9						0	330	0	281	371	358	437
10						218	133	0	326	346	358	338
11						447	0.1	0	330	342	354	285
12						456	0	0	326	350	367	285
13						381	0	0	317	358	381	285
14						358	0	0	309	358	390	289
15						342	0	0	317	346	386	271
16						346	0	0	107	293	456	257
17						334	0	0	0	274	532	213
18						297	0	*1.0	0	278	526	196
19						297	0	*2350	0	278	532	199
20						254	0	*810	0	274	532	237
21						254	0	594	219	395	532	257
22						301	0	510	322	428	526	254
23						322	0	367	313	418	521	254
24						289	0	240	309	386	521	244
25					*95	278	0	173	330	376	526	247
26					204	342	0	260	350	381	526	261
27					30	386	0	330	390	376	532	285
28					0.4	367	0	293	428	367	532	293
29						358	0	305	442	381	526	293
30						358	0	334	428	*376	521	*98
31		—			—	354	—	334	—	376	510	—
Mean						237	102	223	275	345	442	322
Ac-Ft						14560	6099	13690	16340	21190	27150	19170

Maximum Discharge C.F.S. For	Water Year		Total Discharge Ac.-Ft. For	56-Calendar Year	
	Year of Record			56-57 Water Year	

Station located at Rockford Avenue bridge, 4.5 miles west of Porterville, Mile 12.6 below confluence of South Fork Tule River. Period of record February 25, 1957 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 184

PORTER SLOUGH AT PORTERVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1					0	88	0	34	72			
2					0	78	0	32	67			
3					0	62	0	31	64			
4					0	49	0	22	54			
5					0	25	0	18	42			
6					0	24	0	16	39			
7	N	N	N	N	0	24	0	8.0	36	N	N	N
8					0	25	0	*0.5	33			
9	0	0	0	0	0.5	38	0	*0	21	0	0	0
10					7.2	67	0	*0	14			
11					8.8	42	0	*0.3	15			
12					7.0	45	0	9.7	11			
13					7.8	22	0	13	8.5			
14					7.8	*2.3	0	12	6.7			
15					7.5	*0.2	0	18	2.0			
16	F	F	F	F	6.7	9.8	0	19	0.8	F	F	F
17	L	L	L	L	6.1	18	0	11	0.7	L	L	L
18					*4.5	7.8	29	5.8	0.5			
19	0	0	0	0	*1.2	0	32	177	0.5	0	0	0
20	W	W	W	W	*1.2	*0	25	272	*0.4	W	W	W
21					*1.2	0	26	221	*0.3			
22					*1.2	0	25	180	*0.2			
23					*1.2	0	29	178	*0.1			
24					*0.8	0	20	166	*0			
25					*32	0	17	157	*0			
26					37	0	23	157	*0			
27					14	0	33	157	*0			
28					26	0	43	157	0			
29						0	44	125	0			
30						0	38	84	0			
31		—			—	0	—	78	—			—
Mean	0	0	0	0	6.4	20.2	12.8	76.1	16.3	0	0	0
Ac-Ft	0	0	0	0	356	1244	762	4680	969	0	0	0

Maximum Discharge C.F.S. For	Water Year	355 May 19, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year	
	Year of Record	355 May 19, 1957		56-57 Water Year	8011

Station located at "B" Lane bridge. Period of record January 1953 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 185

PORTER SLOUGH NEAR PORTERVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1					2.6	42	0	0	24			
2					2.4	43	0	0	24			
3					2.9	4.6	0	0	23			
4					2.9	*25	0	0	15			
5					3.3	11	0	0	0			
6					2.9	1.9	0	0	0			
7					2.9	0	0	0	0			
8					3.5	0	0	0	0.2			
9					0	4.8	0	0	0.6			
10					0.9	47	0	0	0			
11					2.4	*16	0	0	0			
12					2.9	0.7	0	0	0	N	N	N
13					2.4	0	0	0	0.3	O	O	O
14					2.1	0	0	0	0			
15					1.9	0	0	0	0			
16					1.0	0	0	0	0.1			
17					1.0	0	0	0	0			
18					2.0	0	0	0	0			
19					2.0	0	10	*82	0			
20					2.1	0	3.3	*202	0			
21					1.2	0	11	193	0	F	F	F
22					0	0	0	129	0.1	L	L	L
23					0	0	0	135	2.5			
24					0	0	0	143	0.3	O	O	O
25				*3.3	0.3	0	0	120	0	W	W	W
26				3.5	21	0	0	116	0			
27				3.6	3.7	0	0	110	0			
28				3.3	5.2	0	0	101	0			
29				2.9		0	0	81	0			
30				2.9		0	0	39	0			
31		—		2.8	—	0	—	28	—			—
Mean					2.7	6.3	0.8	47.7	3.0	0	0	0
Ac-Ft					150	389	48	2934	179	0	0	0

Maximum Discharge C.F.S. For	Water Year / Year of Record	275 May 19, 1957	Total Discharge Ac.-Ft. For	56-Calendar Year / 56-57 Water Year

Station located 2 miles west of Porterville on Newcomb Drive bridge. Period of record January 25, 1957 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 186

FRIANT-KERN CANAL TO PORTER SLOUGH

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	8	1.9			0	0	15		0			
2	6	0			0	0	5.6		0			
3	4	0			0	0	0		0			
4	3	0			0	0	0		0			
5	4	0			0	0	0		0			
6	5	0			0	0	0		6.5			
7	5	0			0	0	0		10			
8	5	0			0	0	0		12			
9	5	0			0	0	0		14			
10	5	0			0	0	0		17			
11	5	0			0	0	0		17			
12	5	0	N	N	0	0	0	N	18	N	N	N
13	5	0	O	O	0	0	0	O	18	O	O	O
14	5	0			0	0	0		23			
15	5	0			0	0	0		26			
16	5	0			0	0	0		26			
17	5	0	F	F	0	0	0	F	26	F	F	F
18	5	0	L	L	0	0	0	L	25	L	L	L
19	5	0	O	O	0	0	0	O	24	O	O	O
20	5	0	W	W	1.8	0	0	W	9.4	W	W	W
21	5	0			7.3	0	0		0			
22	5	0			10	0	0		0			
23	5	0			10	0	0		0			
24	5	0			11	0	0		0			
25	5	0			10	0	0		0			
26	5	0			3.5	0	0		0			
27	5	0			0	0	0		0			
28	5	0			0	0	0		0			
29	3.5	0				0	0		0			
30	3.5	0				7						
31	3.9	—			—	15	—		—			—
Mean	5.9	0.1	0	0	1.9	0.7	0.7	0	9.1	0	0	0
Ac-Ft	299	4	0	0	107	44	42	0	540	0	0	0

Maximum Discharge C F.S. For	Water Year / Year of Record		Total Discharge Ac.-Ft. For	56-Calendar Year / 56-57 Water Year	5711 / 1036

These flows are deliveries from Friant-Kern Canal into Porter Slough under contract agreement with the U. S. Bureau of Reclamation. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records computed by U. S. Bureau of Reclamation.

TABLE 187

TULE RIVER AT TURNPIKE STATION

Date	Daily Mean Flow in Second - Feet Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept.
1								0	0			
2								0	NR			
3								0	NR			
4								0	NR			
5								0	NR			
6									NR			
7								0	NR			
8								0	NR			
9								0	NR			
10								0	NR			
11								0				
12								0				
13	N	N	N	N	N	N	N	0		N	N	N
14	O	O	O	O	O	O	O	0		O		
15								0				
16								0				
17	F	F	F	F	F	F	F	0		F		
18	L	L	L	L	L	L	L	0		L	L	
19	O	O	O	O	O	O		0				
20	W	W	W	W	W	W	W					
21								0	0			
22								0	0			
23								0	0			
24								0	0			
25								0				
26								0				
27								0				
28								0				
29								0	0			
30								0	0			
31		—			—		—	0	—			—
Mean	0			0		0	0					
Ac-Ft	0	0										0

Maximum Discharge C.F.S. For Water Year
Year of Record , November 2, 19

Total Discharge Ac - Ft For 56 - Calendar Year
56 - 57 Water Year

Station located 1,200 feet below the Corcoran-Tipton Highway bridge, [illegible] miles [illegible] June 1st of South Fork Tule River. Tule River is a tributary to the Tulare Lake area. At times the flow [illegible] combination of water from Tule River, Kaweah River via Elk Bayou, and Kings River via Homeland Canal, and spill from [illegible] Irrigation District. Period of record [illegible] to date. Records computed by Department of Water Resources.

* Estimated

TABLE 188

KERN RIVER NEAR BAKERSFIELD

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept.
1	796	288	262	264	271	681	64	32	1032	1478	795	426
2	782	275	272	266	319	735	642	99	1061	1414	792	452
3	756	265	268	264	319	689	644	1010	1099	1355	784	446
4	550	234	268	263	305	587	604	1025	1396	1400	799	442
5	742	242	270	262	80	553	583	1015	1758	1375	815	463
6	1877	275	293	251	260	548	554	352	1535	1345	817	47
7	760	327	275	255	282	553	703	970	1458	1347	803	479
8	600	332	265	249	349	622	701	967	1762	1345	784	453
9	659	325	259	256	408	707	672	909	1653	1346	746	468
10	655	327	260	248	419	620	629	895	1513	1381	658	450
11	644	329	272	237	427	604	651	890	1522	1499	642	406
12	606	327	283	252	436	665	695	850	1548	1550	595	399
13	600	322	295	396	470	511	727	780	1542	1609	580	366
14	589	305	310	429	456	496	741	721	1557	1578	577	344
15	582	279	305	396	448	448	737	743	1533	1564	574	336
16	597	291	297	341	441	469	727	749	1473	1581	587	306
17	636	291	279	285	425	509	699	745	1584	1731	583	304
18	660	272	275	285	422	508	629	754	1619	839	623	318
19	714	267	267	288	426	499	625	769	1714	864	635	329
20	704	267	265	325	431	524	636	746	1819	880	659	321
21	676	265	264	333	412	517	652	805	1913	904	607	320
22	655	268	250	320	406	544	643	776	1945	936	615	314
23	655	266	250	318	410	562	588	742	1911	834	630	305
24	650	267	251	309	424	556	581	735	1982	839	563	301
25	642	269	251	291	445	526	611	749	1975	960	561	327
26	627	280	252	292	496	546	646	801	1961	69	604	337
27	620	279	253	316	564	560	679	845	1770	945	604	340
28	604	278	253	279	606	579	696	921	1567	10	610	356
29	617	274	256	275		582	755	926	1557	979	553	355
30	627	275	263	254		593	827	952	1553	737	508	364
31	636	—	263	252	—	634	—	991	—	—	438	—
Mean	680		269	292	406	56	667	90		4	610	379
Ac-Ft	41834	19800	16 4	17954	24	34935	39837		96466		37494	22547

Maximum Discharge C.F.S. For Water Year
Year of Record

Total Discharge Ac.-Ft. For 56 - Calendar Year
56 - 57 Water Year

[illegible] this report [illegible] of Bakersfield, [illegible] known as "Kern River at [illegible]". Drainage [illegible] square [illegible] Kern River is tributary, at Buena Vista Slough and Goose Lake Slough, to the Tulare Lake area. Period of record [illegible] to date. Flow in cubic feet per second computed from noon to noon beginning at noon of day shown. Records computed by Kern County Land Company.

TABLE 189

TULARE LAKE - DAILY ELEVATIONS

Date	Daily Elevation in Feet (a)											
	Oct.	Nov.	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13	Lake dry during 1956-57 water year.											
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31		—			—		—		—			—

Station located approximately 6 miles southwest of Corcoran on the south end of El Rico Bridge. Records are available at this or other sites from 1937 to date. Records computed by Tulare Lake Basin Water Storage District.
(a) U. S. Geological Survey datum.

TABLE 190

SUMMARY OF WATER UTILIZATION OF SACRAMENTO-SAN JOAQUIN VALLEYS

	Year	Acreage (a) General	Acreage (a) Rice	Acreage (a) Total	Diversion Mar.-Oct. Acre-Feet	Irrigation Draft July Average c.f.s.	Gross Duty of Water Ac. Ft. per Acre	Gross Duty of Water Acres per Sec. Ft.	Runoff in % of Average (b) Sacto. R. near Red Bluff
Sacramento River Redding to Sacramento (c)	1948	149700	124100	273800	1565200	5873	5.7	85	95
	1949	144400	137400	281800	1839700	6254	6.5	74	75
	1950	152800	108500	261300	1760500	5850	6.7	72	71
	1951	162200	140800	303000	1939100	6561	6.4	76	113
	1952	142900	139100	282000	1771400	5897	6.3	77	143
	1953	134900	164600	299500	1985800	6731	6.6	73	120
	1954	139800	184900	324700	2056900	7199	6.3	77	115
	1955	165700	136400	302100	2061600	6706	6.8	71	70
	1956	155600	122600	278200	1816300	6332	6.5	74	164
	1957	165800	106100	271900	1785600	6308	6.6	74	89
	Avg. 1948 to 1957	151400	136400	287800	1858200	6371	6.5	75	106
									Sacto. R. near Red Bluff
Colusa Basin Drain	1948	5700	11870	17570	126600	532	7.2 (d)	67 (d)	95
	1949	4410	14560	18970	159700	540	8.4	58	75
	1950	8160	11080	19240	172400	556	9.0	54	71
	1951	6910	13640	20550	203700	659	9.9	49	113
	1952	7840	13180	21020	235300	814	11.2	43	143
	1953	6590	17410	24000	254200	902	10.6	46	120
	1954	5280	16990	22270	270500	1002	12.1	40	115
	1955	8670	10970	19640	225000	753	11.5	42	70
	1956	9760	9340	19100	190200	661	10.0	49	164
	1957	11290	7570	18860	169000	566	9.0	54	89
	Avg. 1948 to 1957	7460	12660	20120	200700	698	10.0	49	106
									Sacto. R. near Red Bluff
Yolo Bypasa and Knights Landing	1948	1710	2260	3970	27800	93	7.0	69	95
	1949	1740	2150	3890	34600	83	8.9	55	75
	1950	1650	1920	3570	29300	84	8.2	59	71
	1951	3650	3360	7010	40700	141	5.8	84	113
	1952	3770	540	4310	12200	41	2.8	172	143
	1953	2510	2240	4750	23500	80	4.9	98	120
	1954	3960	2850	6810	44900	192	6.6	74	115
	1955	5110	3090	8200	41400	162	5.0	96	70
	1956	4980	1810	6790	23400	103	3.4	141	164
	1957	6030	1040	7070	22500	104	3.2	153	89
	Avg. 1948 to 1957	3510	2130	5640	30000	108	5.3	91	106
									Feather R. near Oroville
Lower Butte Creek and Butte Slough	1948	4650	660	5310	27600	106	5.2	93	87
	1949	7140	1880	9020	65200	205	7.2	67	59
	1950	7200	1540	8740	50500	187	5.8	84	87
	1951	6980	1700	8680	53400	206	6.2	79	128
	1952	8660	2850	11510	52400	181	4.6	107	179
	1953	6940	2560	9500	49400	218	5.2	93	117
	1954	8170	3880	12050	63800	247	5.3	92	95
	1955	8370	3180	11550	54800	226	4.7	102	56
	1956	8520	2900	11420	50400	192	4.4	110	180
	1957	11020	1810	12830	38600	117	3.0	162	82
	Avg. 1948 to 1957	7760	2300	10060	50600	188	5.0	97	107

(a) Acreage prior to 1956 reported for calendar year. 1956 and 1957 acreage reported for November through October.
(b) Runoff reported for water year, October through September.
(c) Excluding municipal diversions, the City of Redding and the City of Sacramento.
(d) Includes water pumped by cooperative plants as part of the supply for acreage included with that shown for Sacramento River, Redding to Sacramento.

TABLE 190

SUMMARY OF WATER UTILIZATION OF SACRAMENTO-SAN JOAQUIN VALLEYS (contd.)

	Year	Acreage (a)			Diversion Mar.-Oct. Acre-Feet	Irrigation Draft July Average c.f.s.	Gross Duty of Water		Runoff in % of Average (b)
		General	Rice	Total			Ac. Ft. per Acre	Acres per Sec. Ft.	Feather R. near Oroville
East and West Borrow Pits of Sutter Bypass and Sacramento Slough	1948	7920	2640	10560	36200	149	3.4	142	87
	1949	8300	6180	14480	77600	252	5.4	91	59
	1950	11650	4480	16130	89100	329	5.5	88	87
	1951	11120	6110	17230	103200	405	6.0	81	128
	1952	10060	5580	15640	78400	284	5.0	97	179
	1953	11080	7450	18530	109700	440	5.9	82	117
	1954	11420	7990	19410	125300	477	6.5	75	95
	1955	11580	6180	17760	108000	393	6.1	80	56
	1956	11750	4910	16660	94800	369	5.7	85	180
	1957	13760	3710	17470	88200	341	5.0	96	82
	Avg. 1948 to 1957	10860	5520	16380	91000	344	5.6	87	107
									Feather R. near Oroville
Feather River Mouth to Oroville Bridge	1948	29530	43260	72790	586300	2292	8.1	60	87
	1949	31020	51130	82150	716300	2241	8.7	56	59
	1950	34010	41330	75340	662100	2229	8.8	55	87
	1951	31180	56500	87680	727300	2319	8.3	59	128
	1952	30290	57890	88180	727400	2438	8.2	59	179
	1953	29060	64120	93180	791800	2642	8.5	57	117
	1954	28860	64780	93640	757100	2612	8.1	60	95
	1955	34430	47710	82140	733000	2178	8.9	54	56
	1956	32950	43570	76520	706000	2259	9.2	53	180
	1957	37080	36570	73650	644800	2152	8.8	56	82
	Avg. 1948 to 1957	31840	50690	82530	705200	2336	8.5	57	107
									Yuba R. at Smartville
Yuba River Mouth to Smartville	1948	8720	3120	11840	92800	281	7.8	62	87
	1949	8840	3300	12140	106800	316	8.8	55	64
	1950	10000	2640	12640	127400	342	10.1	48	96
	1951	9640	3420	13060	110300	313	8.4	58	153
	1952	9800	3600	13400	131800	362	9.8	49	178
	1953	9120	5300	14420	133100	362	9.2	53	110
	1954	8640	6080	14720	140600	448	9.6	51	83
	1955	9100	4690	13790	143100	512	10.4	47	55
	1956	9870	4840	14710	161500	476	11.0	44	171
	1957	9310	4640	13950	161800	493	11.6	42	84
	Avg. 1948 to 1957	9300	4160	13460	130900	390	9.7	50	108
									American R. at Fair Oaks
American River Mouth to Fair Oaks (c)	1948	630		630	1210	7	1.9	253	83
	1949	860		860	2250	10	2.6	186	68
	1950	680		680	1720	7	2.5	192	98
	1951	1030		1030	2010	9	2.0	249	171
	1952	1010		1010	1680	8	1.7	292	183
	1953	940		940	1540	8	1.6	297	98
	1954	910		910	1200	7	1.3	369	74
	1955	820		820	900	5	1.1	443	58
	1956	910		910	1150	6	1.3	385	172
	1957	980		980	1140	6	1.2	418	80
	Avg. 1948 to 1957	880		880	1480	7	1.7	289	108
									Sacto. R. at Sacramento
Sacramento River System Sacramento River and Tributaries (d)	1948	208600	187900	396500	2463700	9333	6.2	78	90
	1949	206700	216600	423300	3002200	9901	7.1	69	68
	1950	226200	171500	397700	2893100	9584	7.3	67	82
	1951	232700	225500	458200	3179700	10613	6.9	70	131
	1952	214300	222700	437000	3010600	10025	6.9	71	163
	1953	201100	263700	464800	3349000	11383	7.2	67	115
	1954	207000	287500	494500	3460300	12184	7.0	69	100
	1955	243800	212200	456000	3367800	10935	7.4	66	63
	1956	234300	190000	424300	3043800	10398	7.2	68	171
	1957	255300	161400	416700	2911600	10087	7.0	70	85
	Avg. 1948 to 1957	223000	213900	436900	3068200	10444	7.0	69	107

(a) Average prior to 1956 reported for calendar year. 1956 and 1957 acreage reported for November through October.
(b) Runoff reported for water year, October through September.
(c) Excluding diversion and acreage of Carmichael Irrigation District.
(d) Excludes municipal diversions, the City of Redding and the City of Sacramento, and the diversion and acreage of Carmichael Irrigation District.

TABLE 190

SUMMARY OF WATER UTILIZATION OF SACRAMENTO-SAN JOAQUIN VALLEYS (contd.)

	Year	Acreage (a)			Diversion Mar.-Oct. Acre-Feet	Irrigation Draft July Average c.f.a.	Gross Duty of Water		Runoff in % of Average (b)
		General	Rice	Total			Ac. Ft. per Acre	Acres per Sec. Ft.	San Joaquin R. near Vernalis
Old San Joaquin River	1948	40300		40300	98100	315	2.4	200	73
	1949	42190		42190	108300	332	2.6	189	66
Delta Uplands	1950	40230		40230	116300	362	2.9	168	81
	1951	40110		40110	105200	344	2.6	185	126
(c)	1952	38560		38560	94800	334	2.2	221	167
	1953	41260		41260	118800	355	2.9	169	75
	1954	40740		40740	131200	393	3.2	151	74
	1955	41520		41520	130600	405	3.1	154	61
	1956	41660		41660	118600	400	2.8	171	171
	1957	42350		42350	123900	415	2.9	166	75
	Avg. 1948 to 1957	40890		40890	114600	366	2.8	173	97
									San Joaquin R. near Vernalis
Tom Paine Slough	1948	5080	470	5550	20200	70	3.6	134	73
	1949	5210	380	5590	23300	70	4.2	117	66
Delta Uplands	1950	5220	360	5580	20400	63	3.7	133	81
	1951	4740	410	5150	22600	71	4.4	111	126
	1952	5210		5210	18800	68	3.6	135	167
	1953	5390		5390	21300	65	4.0	123	75
	1954	5470		5470	22800	73	4.2	117	74
	1955	5520		5520	23000	66	4.2	117	61
	1956	5430		5430	21000	57	3.9	126	171
	1957	5110		5110	21900	68	4.3	113	75
	Avg. 1948 to 1957	5240	160	5400	21500	67	4.0	122	97
									San Joaquin R. near Vernalis
San Joaquin River	1948	25550		25550	66600	226	2.6	186	73
	1949	26950		26950	78600	243	2.9	167	66
Stockton	1950	26600		26600	84600	277	3.2	153	81
	1951	26610		26610	74900	242	2.8	173	126
	1952	24750		24750	58700	199	2.4	205	167
to	1953	27270		27270	85800	295	3.1	154	75
	1954	27360		27360	87500	299	3.2	152	74
	1955	27630		27630	94100	301	3.4	143	61
Vernalis	1956	27400		27400	74200	266	2.7	179	171
	1957	28370		28370	85700	291	3.0	161	75
Delta Uplands	Avg. 1948 to 1957	26850		26850	79100	264	2.9	165	97
									San Joaquin R. near Vernalis
San Joaquin River	1948	46380	540	46920	144800	471	3.1	157	73
	1949	45780	620	46400	166900	551	3.6	135	66
Vernalis	1950	48110	390	48500	175100	537	3.6	135	81
	1951	48740	730	49470	172700	571	3.5	139	126
	1952	47390	620	48010	147300	508	3.1	158	167
to	1953	51640	1500	53140	205900	673	3.9	125	75
	1954	49990	2480	52470	200900	618	3.8	127	74
	1955	50840	720	51560	193200	595	3.7	130	61
Fremont Ford	1956	52030	540	52570	171300	556	3.3	149	171
	1957	52880		52880	193300	666	3.7	133	75
Bridge	Avg. 1948 to 1957	49380	810	50190	177100	575	3.5	138	97
									Merced R. at Exchequer
Merced River	1948	6490		6490	17800	80	2.7	177	70
	1949	7940		7940	25500	92	3.2	151	65
Mouth	1950	7910		7910	23900	78	3.0	161	73
	1951	8090		8090	22200	78	2.7	177	124
	1952	7460		7460	18100	64	2.4	200	160
to	1953	7430		7430	29700	103	4.0	122	63
	1954	8390		8390	29300	113	3.5	139	68
	1955	8580		8580	30300	99	3.5	138	54
below	1956	8070		8070	22900	87	2.8	171	172
	1957	8050		8050	29200	110	3.6	134	66
Snelling	Avg. 1948 to 1957	7840		7840	24900	90	3.2	153	92
(d)									

(a) Acreage prior to 1956 reported for calendar year. 1956 and 1957 acreage reported for November through October.
(b) Runoff reported for water year, October through September.
(c) Excluding diversions and acreage irrigated by Delta-Mendota and Contra Costa Canals.
(d) Excluding diversion and acreage of Merced Irrigation District.

TABLE 190

SUMMARY OF WATER UTILIZATION OF SACRAMENTO-SAN JOAQUIN VALLEYS (contd.)

	Year	Acreage (a) General	Acreage (a) Rice	Acreage (a) Total	Diversion Mar.-Oct. Acre-Feet	Irrigation Draft July Average c.f.s.	Gross Duty of Water Ac. Ft. per Acre	Gross Duty of Water Acres per Sec. Ft.	Runoff in % of Average (b) Tuolumne R. near La Grange
Tuolumne River Mouth to La Grange Dam (c)	1948	3740		3740	6230	21	1.7	292	76
	1949	4410		4410	6440	18	1.5	333	68
	1950	4690		4690	6100	18	1.3	374	84
	1951	4500		4500	4620	14	1.0	473	134
	1952	4790		4790	5080	18	1.1	458	165
	1953	5280	120	5400	11350	34	2.1	231	83
	1954	5760	140	5900	14610	50	2.5	196	78
	1955	6290		6290	14430	45	2.3	212	61
	1956	5980		5980	8370	26	1.4	347	178
	1957	5980		5980	12600	46	2.1	231	77
	Avg. 1948 to 1957	5140	30	5170	8980	29	1.7	280	100
									Stanislaus R. below Malones
Stanislaus River Mouth to Goodwin Dam (d)	1948	7920		7920	29700	99	3.8	130	77
	1949	8550		8550	34000	106	4.0	122	64
	1950	8440		8440	33400	102	4.0	123	93
	1951	8340		8340	34700	99	4.2	117	146
	1952	7770		7770	30200	91	3.9	125	165
	1953	8900		8900	42500	136	4.8	102	83
	1954	9290		9290	44100	129	4.7	102	77
	1955	10040		10040	46100	134	4.6	106	59
	1956	9140		9140	42000	131	4.6	106	162
	1957	10060		10060	47100	148	4.7	104	75
	Avg. 1948 to 1957	8840		8840	35400	118	4.0	121	100
									San Joaquin R. near Vernalis
San Joaquin River System San Joaquin River Stockton-Fremont Ford Bridge and Tributaries (e)	1948	135500	1000	136500	383400	1282	2.8	173	73
	1949	141000	1000	142000	443100	1412	3.1	156	66
	1950	141200	800	142000	459800	1437	3.2	150	81
	1951	141100	1100	142200	436900	1419	3.1	158	126
	1952	135900	600	136500	373000	1282	2.7	178	167
	1953	147200	1600	148800	515400	1661	3.5	140	75
	1954	147000	2600	149600	530400	1675	3.5	137	74
	1955	150400	700	151100	531700	1645	3.5	138	61
	1956	149700	500	150200	458400	1523	3.1	159	171
	1957	152800		152800	513700	1744	3.4	145	75
	Avg. 1948 to 1957	144200	1000	145200	464600	1508	3.2	152	97
									Sacramento R. and San Joaquin R. to Delta
Combined above Delta Sacramento River and Tributaries and San Joaquin River Stockton-Fremont Ford Bridge and Tributaries (f)	1948	344100	188900	533000	2847100	10615	5.3	91	86
	1949	347700	217600	565300	3445300	11313	6.1	80	68
	1950	367400	172300	539700	3352900	11021	6.2	78	83
	1951	373800	226600	600400	3616600	12032	6.0	81	131
	1952	350200	223300	573500	3383600	11307	5.9	82	164
	1953	348300	265300	613600	3864400	13044	6.3	77	104
	1954	354000	290100	644100	3990700	13859	6.2	78	92
	1955	394200	212900	607100	3899500	12580	6.4	76	62
	1956	384000	190500	574500	3502200	11921	6.1	80	171
	1957	408100	161400	569500	3425300	11831	6.0	81	80
	Avg. 1948 to 1957	367200	214900	582100	3532800	11952	6.1	80	104

(a) Acreage prior to 1956 reported for calendar year. 1956 and 1957 acreage reported for November through October.
(b) Runoff reported for water year, October through September.
(c) Excluding diversion and acreage of Modesto, Turlock, and Waterford Irrigation District.
(d) Excluding diversion and acreage of South San Joaquin Irrigation District and Oakdale Irrigation District Main Canals.
(e) Excludes diversions and acreage irrigated by: Delta-Mendota and Contra Costa Canals; Merced, Modesto, Turlock, Waterford, and South San Joaquin Irrigation Districts; and Oakdale Irrigation District Main Canals.
(f) Excludes municipal diversions, the City of Redding and the City of Sacramento, and the diversions and acreage irrigated by: Delta-Mendota and Contra Costa Canals; Carmichael, Merced, Modesto, Turlock, Waterford, and South San Joaquin Irrigation Districts; and Oakdale Irrigation District Main Canals.

TABLE 191

AVERAGE MONTHLY DIVERSIONS FOR SACRAMENTO AND SAN JOAQUIN VALLEY STREAMS

In per cent of seasonal total

	Period of Record	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
SACRAMENTO VALLEY									
Sacramento River - Redding to Sacramento	1948 to 1957	0.7	8.8	17.2	18.3	21.0	19.6	10.4	3.9
Feather River - Oroville to Mouth	1948 to 1957	0.5	7.5	18.3	19.6	20.4	18.0	10.3	5.4
Yuba River - Smartville to Mouth	1948 to 1957	0.3	7.2	16.5	17.4	18.3	17.6	13.3	9.4
American River - Fair Oaks to Mouth	1948 to 1957	0.5	2.5	8.0	21.4	26.4	21.3	14.3	5.6
DELTA UPLANDS									
Old San Joaquin River	1948 to 1957	4.0	11.2	15.0	17.7	19.5	17.5	10.8	4.3
Tom Paine Slough	1948 to 1957	4.2	10.7	12.6	15.6	19.1	19.4	13.3	5.1
San Joaquin River - Vernalis to Stockton	1948 to 1957	5.0	14.0	12.9	16.0	20.4	17.4	10.2	4.0
SAN JOAQUIN VALLEY									
San Joaquin River - Fremont Ford Bridge to Vernalis	1948 to 1957	6.0	14.0	13.9	16.1	20.0	17.2	10.2	2.6
Merced River - Snelling to Mouth	1948 to 1957	3.2	7.9	12.2	17.8	22.4	18.8	12.7	5.0
Tuolumne River - Snelling to Mouth	1948 to 1957	4.8	9.3	12.5	17.4	19.8	19.6	11.7	4.9
Stanislaus River - Goodwin Dam to Mouth	1948 to 1957	4.1	9.8	13.6	17.0	18.8	18.5	12.4	5.8

TABLE 192

ANNUAL COMPARATIVE MONTHLY DIVERSIONS
SACRAMENTO RIVER - SACRAMENTO TO REDDING

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1948	53940	16450	251500	271700	365700	351700	217500	65040	1593500
1949	2390	167400	344800	349500	390100	359900	173400	85390	1872900
1950	3070	187700	336800	321300	365500	333200	172900	73770	1794200
1951	6360	254100	303000	381000	409000	373900	177300	70000	1974700
1952	2470	110000	319600	339600	368100	370300	213300	81220	1804600
1953	14100	232600	317200	330700	419900	390300	226000	87430	2018200
1954	2940	96490	402200	407500	448900	409600	242000	81310	2091000
1955	30840	247800	360000	378200	417900	395700	183400	81860	2095700
1956	13410	157400	307100	350200	395300	369700	175700	82770	1851600
1957	3510	199800	319900	341100	394300	357100	180400	25200	1821300
Average Acre-Feet	13300	167000	326200	347100	397500	371100	196200	73400	1891800
Average c.f.s.	216	2806	5305	5833	6464	6036	3297	1194	3893
Monthly Diversion in per cent of seasonal	0.7	8.8	17.2	18.3	21.0	19.6	10.4	3.9	

(a) See 1947 Water Supervision Report for prior years.

TABLE 193

ANNUAL COMPARATIVE MONTHLY DIVERSIONS
FEATHER RIVER - OROVILLE TO MOUTH

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1948	3180	5720	66370	127600	140900	120700	85120	36720	586300
1949	0	57400	146400	141300	137800	126700	59330	47400	716300
1950	160	35170	138400	134100	137000	114000	65200	38080	662100
1951	20	94370	131400	141600	142600	124000	60440	32880	727300
1952	0	29180	131900	142300	149900	140100	91830	42180	727400
1953	9440	68610	143800	145400	162400	139700	83990	38430	791800
1954	0	14830	140800	155700	160600	142000	94980	48160	757100
1955	7750	92380	139700	140100	134000	118200	61150	39740	733000
1956	12590	65670	125400	128700	138900	126300	67260	41180	706000
1957	5220	63590	125000	123500	132300	115200	61390	18610	644800
Average Acre-Feet	3840	52690	128900	138000	143700	126700	73070	38340	705200
Average c.f.s.	62	886	2096	2320	2336	2060	1228	623	1451
Monthly Diversion in per cent of seasonal	0.5	7.5	18.3	19.6	20.4	18.0	10.3	5.4	

(a) See 1947 Water Supervision Report for prior years.

TABLE 194

ANNUAL COMPARATIVE MONTHLY DIVERSIONS
YUBA RIVER - SMARTVILLE TO MOUTH

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1948	30	20	12350	13850	17300	17960	16990	14260	92760
1949	0	9060	18930	17290	19420	17890	13340	10920	106800
1950	0	7310	22080	20740	21020	20370	19400	16460	127400
1951	0	13220	20510	19890	19270	17760	12480	7200	110300
1952	0	5960	22830	22540	22230	22620	20060	15580	131800
1953	0	10930	23350	23370	22270	22460	19740	10990	133100
1954	20	0	23630	26960	27570	26510	21090	14780	140600
1955	930	13520	20780	28260	31460	26820	14130	8250	143100
1956	960	18110	26570	26730	29240	27750	18280	13860	161500
1957	1900	15500	25340	29200	30300	29780	18670	11110	161800
Average Acre-Feet	380	9360	21640	22780	24010	22990	17420	12340	130900
Average c.f.s.	6	157	352	389	390	374	293	201	269
Monthly Diversion in per cent of seasonal	0.3	7.2	16.5	17.4	18.3	17.6	13.3	9.4	

(a) See 1947 Water Supervision Report for prior years.

TABLE 195

ANNUAL COMPARATIVE MONTHLY DIVERSIONS
AMERICAN RIVER - FAIR OAKS TO MOUTH

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1948	90	30	210	870	1740	1420	1030	490	5880
1949	0	60	570	1270	1450	1240	720	200	5510
1950	10	130	550	1090	1110	820	580	310	4600
1951	0	50	450	1190	1300	1410	830	220	5450
1952	0	20	440	830	1070	810	580	200	3950
1953	60	120	230	930	1380	1100	710	330	4860
1954	20	260	670	1600	1920	1240	1090	450	7250
1955	20	120	260	1100	1280	1000	640	290	4710
1956	30	240	560	1430	1680	1410	940	470	6760
1957	40	370	540	1620	1830	1420	820	170	6810
Average Acre-Feet	30	140	450	1190	1480	1190	790	310	5580
Average c.f.s.	0	2	7	20	24	19	13	5	11
Monthly Diversion in per cent of seasonal	0.5	2.5	8.0	21.4	26.4	21.3	14.3	5.6	

(a) See 1947 Water Supervision Report for prior years.

TABLE 196

ANNUAL COMPARATIVE MONTHLY DIVERSIONS
OLD SAN JOAQUIN RIVER(a) - DELTA UPLANDS

In acre-feet

Year(b)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1948	9280	3100	16260	13800	19360	18880	12140	5330	98150
1949	340	16000	19760	18890	20410	16130	10720	6030	108300
1950	6010	15310	18830	18630	22270	19020	12010	4260	116340
1951	200	9750	18250	21020	21130	19780	11330	3710	105200
1952	0	2610	16910	19370	20560	18570	10760	5990	94770
1953	11190	16170	15310	17470	21800	19670	12690	4450	118750
1954	6160	17970	19950	22630	24150	19950	13160	7270	131200
1955	4540	16160	16800	24520	24120	23040	15510	5860	130600
1956	5840	10620	15920	23340	24620	22060	12210	3980	118600
1957	2380	20340	14000	22920	25490	23110	13430	2280	123900
Average Acre-Feet	4590	12800	17200	20260	22390	20020	12400	4920	114600
Average c.f.s.	75	215	280	340	364	326	208	80	236
Monthly Diversion in per cent of seasonal	4.0	11.2	15.0	17.7	19.5	17.5	10.8	4.3	

(a) Excluding diversion by Delta-Mendota and Contra Costa Canals.
(b) See 1947 Water Supervision Report for prior years.

TABLE 197

ANNUAL COMPARATIVE MONTHLY DIVERSIONS
TOM PAINE SLOUGH - DELTA UPLANDS

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1948	630	1000	2800	2870	4330	4220	3420	950	20210
1949	160	3530	3110	3570	4320	4020	3230	1360	23300
1950	740	2290	3080	3160	3860	3540	2600	1150	20420
1951	80	2320	3440	3580	4370	4650	3260	890	22590
1952	30	1310	3640	2760	4200	3660	2250	970	18820
1953	2140	2680	1940	3020	3970	3970	2650	970	21340
1954	1390	2710	2590	3630	4510	4160	2480	1370	22840
1955	1290	2140	2620	3780	3930	4720	3320	1220	23020
1956	1690	1560	2170	3670	3530	4050	2880	1410	20960
1957	840	3460	1670	3660	4200	4700	2580	810	21920
Average Acre-Feet	900	2300	2700	3370	4120	4170	2870	1110	21540
Average c.f.s.	15	39	44	57	67	68	48	18	44
Monthly Diversion in per cent of seasonal	4.2	10.7	12.6	15.6	19.1	19.4	13.3	5.1	

(a) See 1947 Water Supervision Report for prior years.

TABLE 198

ANNUAL COMPARATIVE MONTHLY DIVERSIONS
SAN JOAQUIN RIVER-DELTA UPLANDS - STOCKTON TO VERNALIS

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1948	6010	4570	9920	8250	13910	13360	7910	2680	66610
1949	1230	13440	11890	13140	14930	12380	7860	3770	78640
1950	5750	13090	12200	11860	17050	13270	7860	3560	84640
1951	280	12240	11480	13350	14860	12650	6840	3180	74880
1952	10	3790	10320	9460	12250	12350	7130	3400	58710
1953	8000	13550	8880	10600	18110	14630	8840	3160	85770
1954	6710	11820	9550	14980	18360	13280	8670	4160	87550
1955	5800	12270	10770	16350	17930	16820	10380	3770	94090
1956	4790	9270	7760	13110	16380	13160	7390	2380	74240
1957	1330	16970	9180	15110	17900	16050	7620	1570	85730
Average Acre-Feet	3990	11100	10200	12620	16170	13800	8050	3160	79090
Average c.f.s.	65	187	166	212	263	224	135	51	163
Monthly Diversion in per cent of seasonal	5.0	14.0	12.9	16.0	20.4	17.4	10.2	4.0	

(a) See 1947 Water Supervision Report for prior years.

TABLE 199

ANNUAL COMPARATIVE MONTHLY DIVERSIONS
SAN JOAQUIN RIVER - VERNALIS TO FREMONT FORD BRIDGE

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1948	12900	18450	21680	15490	28960	27910	15980	3420	144800
1949	850	27450	26460	27790	33890	27000	18380	5050	166900
1950	15120	26340	25420	26240	33030	28230	15750	4960	175100
1951	4050	30310	24320	27240	35080	30420	16900	4330	172700
1952	1300	7960	28040	25640	31270	28600	18860	5650	147300
1953	19240	29190	24060	30960	41370	34340	21610	5180	205900
1954	13920	27820	28120	32620	38000	32290	21500	6590	200900
1955	16990	24520	26000	32700	36570	32160	18910	5310	193200
1956	16100	21900	20310	32030	34200	28500	15030	3230	171300
1957	4900	34790	22250	34600	40940	34480	18560	2780	193300
Average Acre-Feet	10540	24870	24670	28530	35330	30390	18150	4650	177100
Average c.f.s.	171	418	401	480	575	494	305	76	364
Monthly Diversion in per cent of seasonal	6.0	14.0	13.9	16.1	20.0	17.2	10.2	2.6	

(a) See 1947 Water Supervision Report for prior years.

TABLE 200

ANNUAL COMPARATIVE MONTHLY DIVERSIONS
MERCED RIVER - SNELLING TO MOUTH

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1948	930	330	2320	2640	4900	4160	1950	530	17760
1949	60	2480	3700	5300	5670	3650	3000	1780	25640
1950	680	2090	4050	4790	4810	4340	2670	450	23880
1951	160	1590	3350	4570	4820	4300	2680	740	22210
1952	40	240	2370	3180	3960	4400	2830	1100	18120
1953	2480	3690	3290	3930	6340	4980	3310	1680	29700
1954	1120	2510	3300	4850	6950	4490	3680	2360	29260
1955	980	2810	3380	5300	6090	6040	4370	1360	30330
1956	1100	1320	1780	4480	5340	4390	3370	1100	22880
1957	400	2740	2950	5390	6780	6020	3700	1260	29240
Average Acre-Feet	800	1980	3050	4440	5570	4680	3160	1240	24900
Average c.f.s.	13	33	50	75	91	76	53	20	51
Monthly Diversion in per cent of seasonal	3.2	7.9	12.2	17.8	22.4	18.8	12.7	5.0	

(a) See 1947 Water Supervision Report for prior years.

TABLE 201

ANNUAL COMPARATIVE MONTHLY DIVERSIONS
TUOLUMNE RIVER - LA GRANGE DAM TO MOUTH

In acre-feet

Year	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1948	300	280	820	890	1280	1400	1030	230	6230
1949	40	620	960	1250	1140	1170	810	420	6440
1950	300	590	970	1110	1120	1170	580	260	6100
1951	150	480	590	980	870	890	500	160	4620
1952	10	140	690	940	1080	1070	690	460	5080
1953	1040	1120	1440	1810	2060	2050	1360	470	11350
1954	590	1200	2210	2330	3080	2860	1570	770	14610
1955	1270	1340	1390	2420	2740	2790	1600	880	14430
1956	440	420	1030	1580	1590	1690	1230	390	8370
1957	190	2150	1150	2290	2810	2520	1170	320	12600
Average Acre-Feet	430	840	1120	1560	1780	1760	1050	440	8980
Average c.f.s.	7	14	18	26	29	29	18	7	18
Monthly Diversion in per cent of seasonal	4.8	9.3	12.5	17.4	19.8	19.6	11.7	4.9	

(a) See 1947 Water Supervision Report for prior years.

TABLE 202

ANNUAL COMPARATIVE MONTHLY DIVERSIONS
STANISLAUS RIVER - GOODWIN DAM TO MOUTH

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1948	1260	1110	4630	4830	6090	6070	4260	1450	29700
1949	40	4750	4660	6150	6530	5650	4250	1940	33970
1950	1310	3240	5390	5490	6270	6250	4060	1380	33390
1951	1160	3730	5040	6100	6080	6340	4240	1970	34660
1952	0	1870	5060	4750	5600	5960	4080	2920	30240
1953	2940	4420	5250	6260	8370	7240	5000	3060	42540
1954	1730	5370	6030	6720	7950	7920	5420	2970	44110
1955	2810	3880	5660	8100	8270	8760	5410	3200	46090
1956	2680	3230	4790	7830	8040	7720	5170	2550	42010
1957	1910	5940	5580	9000	9080	8850	5840	910	47110
Average Acre-Feet	1580	3750	5210	6520	7230	7080	4770	2240	38380
Average c.f.s.	26	63	85	110	118	115	80	36	79
Monthly Diversion in per cent of seasonal	4.1	9.8	13.6	17.0	18.8	18.5	12.4	5.8	

(a) See 1947 Water Supervision Report for prior years.

TABLE 203

COMPARATIVE SEASONAL DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER

Year		River Sections							
		Sacramento to Verona	Verona to Knights Ldg.	Knights Ldg. to Wilkins Slu	Wilkins Slu to Colusa	Colusa to Butte City	Butte City to Red Bluff	Red Bluff to Redding	Total Sacramento to Redding
1948	Seasonal diversion acre-feet	137300	56340	132700	387500	92650	632200	154900	1593500
	Average cubic feet per second	283	116	273	797	191	1301	318	3279
	Acreage irrigated - general	18117	3947	12685	35760	7860	52944	18421	149734
	Acreage irrigated - rice	15145	1568	12125	33503	8299	53477	0	124117
	Acre-feet per acre (a)	3.3	10.2	5.3	5.6	5.7	5.9	8.3	5.7
1949	Seasonal diversion acre-feet	182100	69660	189600	396600	96500	758700	179700	1872900
	Average cubic feet per second	375	143	390	816	199	1561	370	3854
	Acreage irrigated - general	14341	5511	12431	37584	6532	48721	18375	143495
	Acreage irrigated - rice	15606	7337	14891	35148	8080	56207	0	137269
	Acre-feet per acre (a)	5.1	5.4	6.9	5.5	6.6	7.2	9.6	6.6
1950	Seasonal diversion acre-feet	158600	60220	186200	370100	87250	751500	180300	1794200
	Average cubic feet per second	326	124	383	762	180	1546	371	3692
	Acreage irrigated - general	15284	4936	12706	39099	11163	50542	19087	152817
	Acreage irrigated - rice	10897	5274	13359	26757	9107	43085	0	108479
	Acre-feet per acre (a)	4.9	5.9	7.1	5.6	4.3	8.0	9.3	6.7
1951	Seasonal diversion acre-feet	169000	77770	207600	400600	116600	830300	172800	1974700
	Average cubic feet per second	348	160	427	824	240	1709	356	4054
	Acreage irrigated - general	19516	4905	15151	41097	10307	51394	19863	162233
	Acreage irrigated - rice	16665	3434	15061	32823	14243	58609	0	140835
	Acre-feet per acre (a)	3.8	9.3	6.9	5.4	4.7	7.5	8.5	6.4
1952	Seasonal diversion acre-feet	132300	66510	158400	410800	102800	754800	179000	1804600
	Average cubic feet per second	272	137	327	845	212	1553	368	3714
	Acreage irrigated - general	14608	5186	12326	33350	10308	46686	20467	142931
	Acreage irrigated - rice	11550	6761	12622	35766	15314	57040	0	139053
	Acre-feet per acre (a)	3.9	5.6	6.4	5.9	4.0	7.3	8.6	6.3
1953	Seasonal diversion acre-feet	161600	66980	187600	433400	135100	861700	171800	2018200
	Average cubic feet per second	333	138	386	892	278	1773	353	4153
	Acreage irrigated - general	14420	3606	12422	29783	10841	41816	22023	134911
	Acreage irrigated - rice	13383	6836	14052	37302	19077	73961	0	164611
	Acre-feet per acre (a)	4.8	6.4	7.1	6.5	4.5	7.4	7.7	6.6
1954	Seasonal diversion acre-feet	186300	87880	191600	469400	139800	831300	184700	2091000
	Average cubic feet per second	383	181	394	966	288	1710	380	4303
	Acreage irrigated - general	13158	5394	14449	34667	10712	38114	23312	139806
	Acreage irrigated - rice	16532	9840	14631	40093	19644	84198	0	184938
	Acre-feet per acre (a)	5.2	5.8	6.6	6.3	4.6	6.8	7.8	6.3
1955	Seasonal diversion acre-feet	183100	77070	196300	426500	131000	881000	200700	2095700
	Average cubic feet per second	377	159	404	878	270	1813	413	4312
	Acreage irrigated - general	16756	7471	17797	42317	13350	44000	24022	165713
	Acreage irrigated - rice	12336	6077	12969	31783	14155	59035	0	136355
	Acre-feet per acre (a)	5.2	5.7	6.4	5.8	4.8	8.6	8.2	6.8
1956	Seasonal diversion acre-feet	149400	60910	149200	362900	111400	817000	200800	1851600
	Average cubic feet per second	307	125	307	747	229	1681	413	3810
	Acreage irrigated - general	17290	7475	13363	37534	12833	43000	24078	155573
	Acreage irrigated - rice	10789	5323	10224	28011	13345	54949	0	122641
	Acre-feet per acre (a)	4.2	4.8	6.3	5.5	4.3	8.3	8.2	6.6
1957	Seasonal diversion acre-feet	135400	64150	173100	358600	104000	807000	179000	1821300
	Average cubic feet per second	279	132	356	738	214	1661	368	3748
	Acreage irrigated - general	14781	5632	18514	40061	14478	48225	24070	165761
	Acreage irrigated - rice	7225	5771	10207	24773	10206	47894	0	106076
	Acre-feet per acre (a)	4.7	5.6	6.0	5.5	4.2	8.4	7.3	6.6
	Average 1948-1957								
	Seasonal diversion acre-feet	159500	68750	177200	401600	111700	792600	180400	1891800
	Average cubic feet per second	328	141	365	826	230	1631	371	3893
	Acreage irrigated - general	15827	5406	14184	37125	10838	46544	21372	151297
	Acreage irrigated - rice	13013	5822	13014	32596	13147	58846	0	136437
	Acre-feet per acre (a)	4.5	6.1	6.5	5.8	4.7	7.5	8.3	6.5
	Per cent of total diversion	8.4	3.6	9.4	21.2	5.9	41.9	9.5	

(a) Excluding such diversions for municipal use as the City of Sacramento and the City of Redding.

TABLE 204

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Sacramento to Verona)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--"M" STREET BRIDGE - SACRAMENTO--	0.0												
--GAGING STATION - SACRAMENTO RIVER AT SACRAMENTO--	0.6L												
City of Sacramento	0.8L	3-18" 2-20" 2-24"	2366	3173	3353	5250	5834	5374	4386	2700	a 32436	Municipal	
--AMERICAN RIVER--	1.1L												
--BACK BORROW PIT RECLAMATION DISTRICT 1000--	1.3L												
American Home Company	1.45R	1-8"			100	101	111	90	20		422	140	
--RECLAMATION DISTRICT 1000 DRAIN--	2.1L												
Elmer F. Christophel	2.15L	1-8"		6	32	34	46	19	33		170	37	
D. D. Parr	3.15L	1-6"				7	10	1			18	28	
Rose Orchard, Incorporated	3.55R	1-16"			215	157	221	84	184		861	170	
Evergreen Farms	3.75R	1-6"	PLANT REMOVED										
M. Owyang	4.0R	1-10"			54	35	34		32		155	60	
--SACRAMENTO WEIR RECORDER STATION--	4.2												
Reese and Greer	4.65R	1-7"			14	38	53	1			106	b 98	
George W. Reed	5.05R	1-12"		27	68	101	151	64			411	86	
Mary S. Seydel Estate	5.25R	1-8"			53	62	71	62			248	96	
A. R. Merkley	5.3R	1-6"			13	26	29	14			82	53	
Lucy Casselman	5.5R	1-6"				42	18	22			82	c 48	
A. A. Casselman	5.55R	1-8"			40	81	80	9			210	56	
J. E. Bandy	6.0R	1-6"	PLANT REMOVED										
Riverside Mutual Water Company	6.1L	2-18"		66	556	1082	1316	1007	683		4710	1182	
W. W. White	6.6R	1-6"	PLANT REMOVED										
--RECLAMATION DISTRICT 1000 DRAIN #3--	6.85L												
Fred C. Jones	7.5L	1-8"				22	51	36	1		110	100	
A. Marty and C. Inderkum	7.7R	1-8"	NO DIVERSION										
Candido Rosa	7.8L	1-10"				16	76	38			130	98	
E. D. Willey	7.9L	1-10"				39	33	25			97	68	
A. Marty and C. Inderkum	8.25R	1-8"	NO DIVERSION										
A. Marty and C. Inderkum	8.3R	1-8"		6		71	75	80			232	90	
Pearl Blauth	8.5R	1-7"				34	12				46	20	
H. Waldeck	8.7R	1-6"	PLANT REMOVED										
Pong Shee Farm	9.3L	1-10"			109	224	171	91	36		631	185	
Henry Amen and E. C. Peabody	9.35R	1-14"			71	148	56	34			309	d 190	
Fred C. Jones	9.8L	1-8"					9	4			13	11	
Carl Casselman	9.9R	1-12"			58	66	132				256	117	
Lloyd M. Robbins	10.25L	1-14"		23	14	55	103	111	33		e 339	f 516	
Thomas M. Erwin	10.65R	1-12"			50	131	87	64			332	120	
Edward Russell	10.75L	1-12"				25	59	41	15		140	70	
W. A. Ten Eyck	11.1R	1-12"			49	139	89	85			362	g 230	
--ELKHORN FERRY--	11.9												
Woodland Farms, Incorporated	12.0R	4-36"		1527	322	11006	14279	13853	5944	715	h 47646	i,j 3081	i,k 5227
Thomas O'Connor Estate	12.5R	1-12"	NO DIVERSION										
William Plumb, Jr.	12.7R	1-6"				50	41				91	78	
Lewis Thornton	12.95L	m1-4"			2	5	3	3	2		15	4	
S. C. Farms, Inc.	13.1R	1-12"				25	118	114	13		n 270	p 230	
S. C. Farms, Inc.	13.25R	1-12"	30	103	114	181	111	76	32	7	654	p	
Elkhorn Mutual Water Company	14.1L	1-24" 1-30"		515	1237	2570	2627	2603	988		10540	q 2274	q 146
Joseph Veress	14.25R	1-14"		80	96	98	80	160	83		r 597	120	
A. Bianchi	15.1L	1-3" 1-4"	NO DIVERSION										
Donald J. Damron	15.1R	1-16"			5	225	143	12	4		389	178	
Natomas Central Mutual Water Company	16.0L	1-24" 2-32" 2-38"		2584	4860	4193	5758	5314	3665	123	q 26497	2538	1852
Hershey Estate	16.27R	1-20"	NO DIVERSION										
Sacramento River Ranch	16.62R	1-14"				370	62	281	58		771	s,t 530	

TABLE 204

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Sacramento to Verona) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar -Oct Acre Feet	Acreage Irrigated	
			Mar	Apr	May	June	July	Aug.	Sept	Oct		General	Rice
Sacramento River Ranch	17.0R	1-14"				96	36	129	89		350	e	
Frank and Ruth Lang	17.4R	1-16"				162	1	200			363	110	
Jose Alves and Sons	17.75R	1-16"				NO DIVERSION							
Jose Alves and Sons	18.0R	1-20"	40	149	148	254	635	541	239	41	u 2045	v 725	
H. C. Lauppe	18.2L	2-10"				140	105	130	128		503	211	
Burton H. Lauppe	18.45L	1-14"				172	95	59			326	200	
Layton Knagga	18.7R	1-24"		6	197	376	423	431	13		1446	625	
J. L. Brannely	18.7L	1-12"				10		7	9		26	8	
SACRAMENTO TO VERONA													
Totals			2440	8260	11830	27920	33440	31270	16690	3590	135400	14781	7225
Average Cubic feet per second			40	139	192	469	544	509	280	58	279		
Monthly use in per cent of seasonal			1.8	6.1	8.7	20.6	24.7	23.1	12.3	2.7			

a Additional acre-feet diverted: November 2444, December 2333, January 2270 and February 2035.
b Includes 40 acres which also received an undetermined amount of well water.
c This acreage also received an undetermined amount of well water
d All Peabody lands.
e Additional acre-feet diverted: February 14.
f Includes 230 acres which also received an undetermined amount of water from controlled drainage.
g Includes 90 acres which also received an undetermined amount of well water.
h Additional acre-feet diverted: November 2569, December 2592 and January 361.
i This acreage also received 13,450 acre-feet of water from Cache Creek and an undetermined amount of water from Willow Slough and controlled drainage.
j Includes 260 acres of duck club land.
k Of this acreage, 100 was reused as duck club land. Includes 772 acres outside of Woodland Farms Incorporated.
m Replaces a 5" unit.
n Additional acre-feet diverted: November 15 and December 13.
p Combined acreage for Miles 13.1R and 13.25R. This acreage was double cropped.
q 102 acres of general crops and 146 acres of rice listed for Mile 14.1L were irrigated by 2456 acre-feet of water from Mile 16.0L. 90 acres of general crops listed for Mile 14.1L also received an undetermined amount of water from Mile 16.0L.
r Additional acre-feet diverted: December 2 and January 2.
s Combined acreage for Miles 16.62R and 17.0R.
t Includes 280 acres which also received 163 acre-feet of water from Mile 6.3L, Knights Landing Ridge Cut.
u Additional acre-feet diverted: December 19.
v Of this acreage, 105 was double cropped.

TABLE 205

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Verona to Knights Landing)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar -Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
--GAGING STATION - SACRAMENTO RIVER AT VERONA--	19.6L												
--CROSS CANAL RECLAMATION DISTRICTS 1000 AND 1001--	19.6L												
Arthur Drown	*(0.05S)	1-10"			85	201	152	128	84		650	229	
Natomas Central Mutual Water Company	*(1.0S)	a 1-24" 1-36"		728	2664	2159	2222	2508	1473		11754	105	1211
Natomas Central Mutual Water Company	*(2.0S)	1-20" 2-24"		1063	3970	3309	4474	4516	1894		19226	508	2918
B. J. Ukropina	*(3.3N)	2-24"		440	875	624	13				1952	b 120	b 425
B. J. Ukropina	*(3.35N)	1-16"			328	376	874	863	308		2749	b	b
Roy C. Osterli	*(3.35N)	1-14"				NO DIVERSION							
Roy C. Osterli, Harlan Van Dyke, and Orland Van Dyke	*(3.45N)	1-36"		608	1278	1309	1833	2277	1209		8514	223	443
--FEATHER RIVER--	20.9L												
--SACRAMENTO SLOUGH--	21.2L												
Sacramento River Ranch	21.5R	1-16"			4	103	133	107	32		379	260	
Sacramento River Ranch	21.7R	1-15"				PLANT REMOVED							
Roy Michelotti (c)	22.1R	1-10"						104	77		181	80	
Sacramento River Ranch	22.5R	1-24"				NO DIVERSION							
A. F. Johnston	26.8L	1-16"					70				70	170	
Anthony Furlan	26.8L	1-16"					12	10			22	55	
--FREMONT WEIR RECORDER STATION--	28.0R												
Lowell Edson (d)	(e)28.1R (0.8)	1-5"				25	22	19			66	120	
Nershey Estate (d)	(e)28.1R (1.3)	1-18"		115	43	207	293	292			f 950	50	
Gus Inglin (c)	(e)28.1R (2.4)	1-12"			12	11	10	25	12		70	20	
Anthony Furlan	28.2L	1-12"					14	7			21	60	
Gus Inglin	28.2R	1-6"		5	2	9	13	6	7		42	20	
Ralph White	28.6L	1-8"				41	16	13			70	45	

TABLE 205

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Verona to Knights Landing) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Hershey Estate	29.0R	1-12" 2-16"				436	487	133	3		1059	160	
Russell Brothers	29.2R	1-12"					163	46	29		238	160	
Sebastian Yturralde	29.9L	1-12"				NO DIVERSION							
M. R. Richardson	30.1R	1-8"				PLANT REMOVED							
Leo Giovanetti	30.2L	1-6"			10	6	12	7	11		46	40	
Anthony Furlan	30.5L	1-14"				47	16	25	10		98	g 169	
M. R. Richardson	30.7R	1-10"				NO DIVERSION							
Albert Nusz	30.75R	1-6"				6	13	18	13		h 50	20	
Alice E. West	30.9L	1-6"					47	26	13		86	70	
A. C. Huston Jr. and Mrs. E. Huston	31.5R	1-12"				NO DIVERSION							
M. R. Richardson	31.75R	2-14"		16	313	124	334				787	370	
M. Alonso	31.8L	1-6"					1				1	1	
Sutter Mutual Water Company (Portuguese Bend)	32.0L	1-20" 2-24"		824	2250	2127	2351	1819	1184	73	i 10628	j 1616	464
J. F. Waters and E. Furlan	32.5L	1-12"			22	84	73	40	15		234	69	
Collier Brothers	32.5R	1-10"				50	69	42	8		169	100	
W. H. Zeigler and H. Carlson	33.2L	2-10" 1-12"			693	401	654	588	198		2534	480	150
J. G. Knox	33.35L	1-10" 1-12"				44	53	19	29		145	160	
Clarence Du Bois	33.5R	k 1-14"				3	93	46	33		175	120	
P. K., G. J., and W. N. Leiser and L. J. Mansager	33.75L	1-14"		13	228	207	260	241	58		1007		160
Neil Wilson	33.85R	1-6"		18	11	44	43	31	28		m 175	32	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	33.95												
VERONA TO KNIGHTS LANDING													
Totals			0	3830	12790	11950	14820	13960	6730	70	64150	5632	5771
Average cubic feet per second			0	64	208	200	241	227	113	1	132		
Monthly use in per cent of seasonal			0	6.0	20.0	18.6	23.1	21.7	10.5	0.1			

* Mile 19.6L Cross Canal. Distance from Sacramento River and bank are shown in parentheses.
a Previously listed as a 28" unit.
b Combined acreage for Ukropina plants at Mile (3.3N) and (3.35N)
c New installation in 1957.
d Installed prior to 1957. Not previously listed.
e Plant is located in Grays Bend, an old channel of the Sacramento River, in which water is derived from seepage and a gated pipe to the river. Distance from river is shown in parentheses.
f Includes an undetermined amount of water furnished to acreage listed for Mile 4.75L, Knights Landing Ridge Cut.
g This acreage also received an undetermined amount of water from controlled drainage.
h Additional acre-feet diverted: January 4.
i Additional acre-feet diverted: February 406.
j Of this acreage, 40 was double cropped.
k Replaces a 12" unit.
m Additional acre-feet diverted: November 11.

TABLE 206

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Knights Landing to Wilkins Slough)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GAGING STATION - SACRAMENTO RIVER AT KNIGHTS LANDING--	34.0L												
--KNIGHTS LANDING BRIDGE--	34.1												
--COLUSA BASIN DRAIN--	34.15R												
E. E. Nuttall	34.15R (0.2)	1-6"					1				a 1		
River Farms Company	34.5R	1-16" 1-20" 1-24"		559	299	416	1044	482	215		3015	378	
Wallace Ernst and A. Johnson	34.85L	1-8" 1-12"					84	74			158	100	
Walter Raymond	35.2L	1-12"				36	59	25			120	70	
Johnson and Anderson	35.8L	1-10"				49	32	40			121	65	
J. Goffitzer	35.85L	1-6"				7	4	2			13	10	
Frank Rossi	36.2L	1-12" 1-14"			66	123	217	104	77		b 587	c 395	
Earl H. Gray	36.45L	1-8"				NO DIVERSION					d		
--RECLAMATION DISTRICT 787 DRAINAGE PLANT--	37.0R												

TABLE 206

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Knights Landing to Wilkins Slough) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
Albert Nuttall	37.2L	1-14"				38	39				77	25	
Maybelle J. Bundock	37.75L	1-8"				34	11	19			64	46	
Alice Reel and Mabel Green	38.4L	1-10"	NO DIVERSION										
C. L. Reel	38.8L	1-10"	NO DIVERSION										
C. L. Reel	39.4L	1-12"					94	26			120	80	
C. L. Reel	39.8L	1-10"					47	18			65	80	
William Duffy, Jr.	39.9L	e 1-8"				42		27			69	24	
Sutter Mutual Water Company (State Ranch Bend)	40.6L	2-24" 1-36"		1764	4398	4395	4992	4815	1749		f 22113	3770	1276
River Farms Company	41.0R	1-14" 1-16"		48		416	735	182			1381	363	
Buell Ranch	41.0L	1-6"				10	9				19	43	
Buell Ranch (B. E. Dean)	42.2L	1-6"				10	16				26	19	
Mrs. N. Lorenzetti	42.3L	1-8"				6	52	55			113	50	
El Dorado Ranch	42.3R	1-14" 1-16"			92	575	531	270	187	33	1688	816	
El Dorado Ranch	43.1R	1-12"	NO DIVERSION										
Reclamation District 2047	43.1R	3-50"		6857	14367	11900	13323	13619	6553		g 66619	h 2648	h 6872
Kramer Ranch	43.1L	1-12"				69	49				118	100	
Bill Erdman	43.4R	1-10"				64	95	81	71		311	150	
--RECLAMATION DISTRICT 108 DRAINAGE PLANT--	44.0R												
John Clauss	44.2L	1-18"			2	240	189	72			503	i 639	
John Clauss (Fuchlin)	45.6L	1-14"	NO DIVERSION										
--GAGING STATION - SACRAMENTO RIVER ABOVE R.D. 108 DRAIN PLANT--	46.4												
John Clauss	46.45L	1-16"			106	138	174				418	1	
J. R. Henle	46.5L	1-14" 1-20"			237	184	157	123			j 701	206	
Mary Hiatt Properties, Incorporated	48.7L	2-22"		379	1071	879	1012	800	23		k 4164	158	100
G. J. Hiatt (m)	49.0L	1-14"				92	84	158	30		364	n	n
G. J. Hiatt	49.7L	1-14"		49	337	198	273	209	127		1193	n 280	n 70
Reclamation District 108 (Tyndall Mound)	51.1R	2-24" 1-36"			9284	490	9406	379	406		19965	1226	
Holmes and Westover Company	51.2L	2-16"		289	1307	1291	1367	1196	506		5956	645	225
Fritz Erdman	51.9R	1-12"				94	100	98			292	100	
Thomas Nelson	52.0L	1-16"	NO DIVERSION										
George Van Ruiten	52.9L	1-10"	NO DIVERSION										
Reclamation District 108 (Howell Point)	53.8R	1-14" 1-20" 1-36"		125	281	654	1223	538	433		3254	644	
George Van Ruiten	53.9L	1-12"					254	101	59		414	290	
Broomieside Farms	55.1L	1-20"	NO DIVERSION										
Broomieside Farms	56.3L	1-16"	NO DIVERSION										
Reclamation District 108 (Boyer Bend)	56.4R	1-12" 1-18" 2-22" 1-36"	50	1761	2635	3506	5282	3997	1664		18895	2113	310
Jacob Miller	56.65R	1-12"	NO DIVERSION										
Broomieside Farms	56.95L	1-20"			204	239	152	85	73		753	135	
L. M. Miller	57.0R	1-10"	NO DIVERSION										
William Crawford	57.25L	1-24" 1-30"		1318	1935	1997	2095	3036	2273		p 12654	q 495	1235
Lamb Brothers	57.5L	1-16"	NO DIVERSION										
J. A. Neilson Estate	58.3L	1-14"		33	59	110	128	111	28		469	239	
Alex Grant	58.9L	1-16"				13	181	162	29		385	145	
I. G. Zumwalt	59.1R	1-12"	NO DIVERSION										
Reclamation District 108 (South Steiner Bend) (m)	59.15R	1-10" 1-16"					231	184	57		472	125	
Lamb Brothers	59.8L	1-14"	NO DIVERSION										
W. A. Larner	60.4L	1-14" 1-16"		527	635	685	1425	680	122		4074	1086	79
L. A. Butler	60.5L	1-12"				71		40			111	86	
Reclamation District 108 (North Steiner Bend)(m)	61.3R	1-16"						56	37		93	r 70	

TABLE 206

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Knights Landing to Wilkins Slough) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Richard Moore	61.5R	1-12"					69	14			r 83	100	
L. A. Butler	61.8L	1-12"				86	79				165	90	
Wayne Hine	62.3R	1-10"		3	10	66	82	61	23		245	85	
John Mack	62.3L	1-14"		1	110	142	94	265	38		s 650	290	90
Jake Locvich	62.6R	1-6"				30	13				43	35	
KNIGHTS LANDING TO WILKINS SLOUGH Totals			50	13710	37440	29400	45500	32200	14780	30	173100	18514	10207
Average cubic feet per second			1	230	609	494	740	524	248	1	356		
Monthly use in per cent of seasonal			0	7.9	21.7	17.0	26.3	18.6	8.5	0			

a Diversion for stock water only.
b Additional acre-feet diverted: December 28.
c Includes 162 acres of Guisti lands.
d Acre-feet diverted: December 36.
e Replaces a 5" and a 6" unit.
f Additional acre-feet diverted: January 364.
g Includes 21264 acre-feet delivered to River Farms Company as follows: April 2279, May 4229, June 4266, July 4417, August 4525 and September 1548.
h Includes acreage as follows: Reclamation District 108, general 2344 and rice 4683; River Farms Company, general 304 and rice 2189.
i Combined acreage for Miles 44.2L and 46.45L.
j Includes 115 acre-feet spilled into a lake.
k Includes an undetermined amount of water spilled to a lake for sub-irrigation.
m New installation in 1957.
n Combined acreage for Miles 49.0L and 49.7L.
p Additional acre-feet diverted: December 48.
q Includes 40 acres of Broomieside Farms lands that received 13 acre-feet for duck ponds.
r The acreage listed for Mile 61.3R also received 41 acre-feet from Mile 61.5R.
s Additional acre-feet diverted: February 1.

TABLE 207

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Wilkins Slough to Colusa)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GAGING STATION - SACRAMENTO RIVER BELOW WILKINS SLOUGH--	62.9R												
Reclamation District 108	63.2R	5-42" a 1-48"	237	12239	23772	23757	25826	26397	6874		b 119102	c 2283	c 10872
R. L. Young	63.3L	1-12"			38	67	133	77	58		373	135	
Meister Ranch	63.65L	1-8"				63	56	43			162	100	
Sutter Mutual Water Company	63.75L	6-42" 2-48"		15582	29533	29189	32605	32161	12981	947	d 152998	e21630	e 9816
Robert E. Seamans	63.9L	2-14"		116	375	512	529	677	146		2355	280	90
--TISDALE WEIR RECORDER STATION--	64.2L												
Ornbaum Livestock Company	64.3R	1-14"			20	50	52	76	16		f 214	107	
Lamb Brothers	64.35L	1-14"				113	193	74			380	90	
Tisdale Irrigation and Drainage Company	64.4L	1-8" 1-12"		3	203	302	324	346	82		1260	g 322	
Van Horn Ranch	64.9R	1-14"			42	137	115				294	100	
Juan Velasquez	65.1R	1-4"				NO DIVERSION							
Fred Schohr	65.6R	1-16"				NO DIVERSION							
Walter Ettl	65.7L	1-8"			10	101	125	117			353	135	
J. L. Browning	66.4R	1-18"				NO DIVERSION							
Tisdale Irrigation and Drainage Company	67.1L	1-16" 1-22"		459	1132	1252	1349	1185	494		g 5871	h 814	h 175
Newhall Land and Farming Company	67.5L	1-12" 2-24"		879	1601	1873	2155	1904	245		8657	2369	
--RECLAMATION OISTRICT 70 DRAINAGE PLANT--	68.8L												
Meridian Farms Water Company #5	68.8L	1-24"				196					i 196		
J. L. Browning	69.0R	1-14" 1-22"				NO DIVERSION							
C. Yerxa and A. Andreotti	69.2R	j 1-10" 2-16"		319	575	853	1179	831	209	23	3989	993	117
--EDDY'S FERRY SITE (GRIMES)--	69.45												
J. E. Hollenbeck	69.8R	1-14"				NO DIVERSION							
H. F. Daly	70.4L	1-10"		24	26	47	97	62	24		280	k 87	
Beckley, Ritchie, Poundstone and Andreotti	70.4R	1-16" 1-20"				NO DIVERSION							
Meridian Farms Water Company #4	71.1L	1-24"		402	1456	1480	1679	1768	1147		7932	631	482
A. B. Armstrong	71.9R	1-14"			43	172	299	186	162		862	m 370	

TABLE 207

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Wilkins Slough to Colusa)(contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar	Apr	May	June	July	Aug	Sept.	Oct.		General	Rice
H. and A. Andreotti	72.1L	2-14"		193	614	398	625	576	509		2915	110	210
C. T. Froh	73.6R	1-10"		24	42	75	88	53	63		n 345	111	
Meridian Farms Water Company #3	74.8L	1-18"		68	1055	1028	993	975	611		4730	658	45
L. B. Westfall	75.3R	1-10"			199	127	162	101			589	p 247	
J. H. Yates Estate	76.1L	1-10"		27	67	71	74	40	36		315	q 170	
Robert Chesney	76.15L	1-10"		136	269	291	315	332	22		1365		87
M. S. Davis and C. K. Anderson	76.2L	1-8"			9	28	26				63	r 68	
Steidlmayer Brothers	76.5R	1-16"			319		117	14			450	210	
Olive Percy Davis, et al.	77.8R	1-16"		154	109	530	544	425			1762	443	
San Juan Ranch	77.9L	1-16"			71	214	111	50			446	324	
Olive Percy Davis, et al.	78.75R	2-12" 1-16"		862	978	798	962	467	74		4141	145	e 2062
Olive Percy Davis, et al.	78.8R	1-24"		1041	2414	2048	2205	1987	599		s 10294		
Steidlmayer Brothers	78.9R	1-12"		101							101	115	
C. E. Reische	79.0L	1-10"			84	82	92	39			297	t 168	
Gerrans Orchard	79.3R	1-10"			39	31	101		5	35	211	u 75	
J. J. Hankins	79.5L	1-8"				62	22	10			94	v 38	
A. M. Wood	79.7L	1-10"			4	96	20	41			v 161	w 112	
--GAGING STATION - SACRAMENTO RIVER AT MERIDIAN--	79.85												
Meridian Farms Water Company #1 and #2	80.0L	1-10" 1-20" 1-24"		1054	2640	3848	3825	3515	1517		16399	x 3298	x 710
Gerrans Orchards	80.3R	1-8"			29	24	74			7	134	60	
Tomlinson Brothers and E. J. Burrows (y)	81.5L	1-16"			1	136	58	25	22		242	70	
Tomlinson Brothers (z)	81.8L	1-16"				110	57	38	48		253	100	
F. T. Reische and L. F. Wood	82.5L	1-12"			20	52	77	57			aa 206	105	
Emerson Hixon	82.7L	1-6"				NO DIVERSION							
Steidlmayer Brothers	83.0R	1-20"	83	116	31	192	466	300	72		ab 1260	341	
J. E. Clark	83.3L	1-14"			51	1	41	27			120	ac 108	
J. E. Clark	83.5L	1-10"			54						ac 54		
--BUTTE SLOUGH OUTFALL GATES--	84.0L												
Reclamation District 1004	85.3L	1-8"				26	1	18			45	40	
Steidlmayer Brothers	85.6R	1-12"				NO DIVERSION							
Clifford Reichel	85.8L	1-10"			19	1	1	21			42	85	
Lydell Peck	86.1L	1-8"		32		45	41				118	70	
W. H. Halsey	86.1R	1-12"		15	135	60	155	55	32	24	476	193	
Howell Davis	86.2R	1-18"			95	160	264	55	71		645	150	
Scortino Brothers (ad)	86.8L	1-8"		10	18	12	39				79	45	
Kathleen Wilbur	86.9R	1-10"		1	221	64	67	70	3		426	214	
Kathleen Wilbur	87.4R	1-10"		42	7	84	50			7	190	62	
W. H. Halsey	87.45L	1-6"				7	12				19	23	
Mrs. D. Locvich	87.6L	1-8"				8	5				13	12	
Swinford Tract Irrigation Company	87.7R	1-12"		5	93	82	96	8	22		306	109	
Frank Azevedo	88.0R	1-6"			6	6	7				19	17	
Nagel and Locvich	88.2L	1-10"		6	21	16	42				ae 85	44	
Mayfair Farms Incorporated	88.7L	1-14"		43		96	90				af 229	115	
Colusa Irrigation Company	89.2R	1-20"			279	236	537	99			1151	345	
Grace S. Arnold	89.24L	1-8"				69					69	64	
Reclamation District 1004	89.25L	1-12" 1-18"			259	392	746	767	107		ag 2271	ah 835	ah 107
W. H. Halsey and M. Yerxa	89.26L	1-12"				99	98				197	116	
WILKINS SLOUGH TO COLUSA													
Totals			320	33950	69080	71870	80020	76070	26250	1040	358600	40061	24773
Average cubic feet per second			5	571	1123	1208	1301	1237	441	17	738		
Monthly use in per cent of seasonal			0.1	9.5	19.3	20.0	22.3	21.2	7.3	0.3			

TABLE 207

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Wilkins Slough to Colusa) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

a The 48" unit was installed in 1957.
b Additional acre-feet diverted: January 43 and February 944.
c This acreage also received 1058 acre-feet of water from plant on Colusa Basin Drain, Mile 19.9L.
d Additional acre-feet diverted: November 93. Includes 7096 acre-feet of water served to lands in Reclamation District 1660 as follows: April 132, May 1823, June 1327, July 1725, August 1547 and September 542.
e Includes 728 acres of general and 629 acres of rice in Reclamation District 1660.
f Additional acre-feet diverted: December 8.
g 120 acres of general crops listed for Mile 64.4L also received an undetermined amount of water from Mile 67.1L.
h Includes 250 acres of general and 95 acres of rice crops of F. Winship lands which are outside the district and received 1292 acre-feet of water.
i This water supplemented a drainage supply which irrigated 1062 acres of general and 149 acres of rice crops.
j The 10" unit was installed in 1957.
k Includes 41 acres of Rohlieder lands.
m Includes 130 acres of Steidlmayer lands.
n Additional acre-feet diverted: December 32 and January 18.
p Includes 120 acres of Steidlmayer lands.
q Includes 20 acres of Coffman lands and 15 acres of Miller lands.
r Includes 18 acres of Albertson lands.
s The rice acreage listed for Mile 78.75R received all water diverted at Mile 78.8R.
t Includes 30 acres of Davis land, 30 acres of Lemos land and 30 acres of Stass land.
u Includes 15 acres of Oil Terminals Company land.
v The acreage listed for Mile 79.5L also received an undetermined amount of water from Mile 79.7L.
w Includes 62 acres of Burtis lands.
x An additional 545 acres of general and 218 acres of rice were irrigated by controlled drainage.
y Formerly listed as Wayne Hall Estate and E. J. Burrows.
z Formerly listed as Wayne Hall Estate.
aa Additional acre-feet diverted: November 12.
ab Additional acre-feet diverted: November 6, December 50, January 28 and February 116.
ac The acreage listed for Mile 83.3L also received the 54 acre-feet of water from Mile 83.5L.
ad Formerly listed as Mitchel Lobrovich and John Brayovich.
ae Additional acre-feet diverted: November 2.
af Additional acre-feet diverted: November 43.
ag Additional acre-feet diverted: November 658, December 326 and January 99.
ah This acreage was reused for duck ponds and also received an undetermined amount of water from Butte Creek, Mile 4.3R.

TABLE 208

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Colusa to Butte City)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--COLUSA BRIDGE - GAGING STATION - SACRAMENTO RIVER AT COLUSA--	89.4R												
Lillian and Hattie Boggs	89.7L	1-10"			4	38	61	2			105	55	
Roberts Ditch Company	90.7R	1-18"		109	555	844	863	612	274		a 3257	1240	
I. G. Zumwalt	91.0R	1-6"				NO DIVERSION							
Paul R. Westfall	91.1L	b 1-3" 1-8"				10	18	19			47	25	
I. G. Zumwalt	91.6R	1-12"			40	12	80				132	130	
--COLUSA WEIR RECORDER STATION--	92.4L												
Andrew Martin (c)	92.5L	d 1-8"					3	8			11	95	
W. H. Halsey (e)	92.6R	1-8"				18	9				27	f	
Andrew Martin	92.7L	1-4"				NO DIVERSION							
W. H. Halsey	93.0R	1-8"				38	20				58	f 49	
Paul R. Westfall (g)	93.2L	1-3"						11			11	22	
Paul R. Westfall	93.6L	b 1-3" 1-10"			3	30	17	20	9		79	54	
Tuttle Land Company	94.3R	1-20"		3	98	153	121				375	h 265	
Roger Wilber	95.25L	1-12" 1-18"		174	778	911	947	801	291	60	i 3962	j 626	170
Azro N. Lewis	95.6L	1-12" 1-20"				98	171	114	56	99	k 538	960	
J. G. Griffin	95.75L	1-15"		19		17	95	15			146	167	
J. G. Griffin	95.8L	1-26"				NO DIVERSION							
W. G. Graham	95.85L	1-18"				274	154	94			m 522	n 174	
I. G. Zumwalt	96.8R	1-15"		5	181	174	157				517	340	
H. Heitman	97.7R	1-14"		38	49	76	114	67	60		404	85	
Rio Bonito Farms	97.75L	1-6"		18	51	62	75	79	26		311	190	
Rio Bonito Farms	98.0L	1-10"				14		8			22	27	
J. L. Erisey	98.3R	1-10"		5		26	38	26	7	16	118	p 56	
Otterson and Boggs	98.6L	1-15"		418	633	799	823	778	236		3687		200
O. Boggs	98.8L	1-18"			3	25	27	15	2		72	50	
Elizabeth Reimer	99.0R	1-14"			156	87	136	52			431	167	
J. E. Boggs	99.1L	q 1-16"			95	46	94	7			242	160	
Hollis Sartain	99.2L	1-20"		132	1288	1161	1212	1226	654		r 5673	20	620
L. W. Seaver	99.3R	1-10" 1-12"		99	150	90	133	89	113		674	s 200	
Helen Forry (t)	99.8L	u 1-16"			37	245	89	210	121		702	285	
Saint Patrick Home Ranch	101.1R	1-20"		15	110	341	475	335		3	1279	v 578	
Jane Foster Carter	101.8L	1-14"			1	114	125	130	6		376	247	
Guy M. Morse and George A. Packer (w)	102.8R	2-12" 1-20"		197	671	718	772	625	133		3116	70	322

TABLE 208

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Colusa to Butte City) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
C. B. Carter	102.9L	1-16"		93	73	204	335	169	19		x 893	390	
--GAGING STATION - SACRAMENTO RIVER OPPOSITE MOULTON WEIR--	103.3												
--MOULTON WEIR RECORDER STATION--	103.6L												
Charles W. Welch	103.7R	1-16"			123	228	136	55			y 542	160	
Charles W. Welch	103.8R	1-14" 1-20"				NO DIVERSION							
C. W. Tuttle	103.9R	1-12" 1-18"		95	222	63	539	76	98		1093	740	
I. G. Zumwalt	104.8L	1-12"		42	25	66	64				197	135	
I. G. Zumwalt	105.3L	1-12"				NO DIVERSION							
Lawrence Boyd	105.5L	1-10"					6		6		12	21	
Thousand Acre Ranch (H. W. Keller)	106.0R	1-14"		30	59	242	179	45			555	z 272	
Olive Percy Davis, et al.	106.5R	2-16"		545	348	944	1108	1016	303		4264	320	271
Princeton Ranch Company	110.0R	1-12"		106	2	88	101				297	180	
H. Womble	110.1L	2-16"		3	1	1	8		1		aa 14	2	
I. G. Zumwalt	110.7L	1-12"				100	87				187	155	
--PRINCETON FERRY--	112.0												
I. G. Zumwalt	112.05L	1-12"		10	12	29	14				65	65	
Reclamation District 1004	112.1L	2-30" 1-50"		3782	11275	10466	12558	9220	3359		ab 50660	ac 2869	ac 5410
Princeton-Codora-Glenn Irrigation District	112.4R	3-24"		1599	2099	4431	4782	4460	507	28	17906	ad 2503	ad 3213
I. G. Zumwalt	112.6L	1-10"			50	138	55				243	220	
Emerson Be. Estes	114.9R	1-5"				NO DIVERSION							
Mark Munson	115.3R	1-4"			3		20	28	15		ae 66	17	
Opal L. Cushman	115.5L	1-12"		9	23	25	31	38			126	92	
COLUSA TO BUTTE CITY													
Totals			0	7550	19220	23450	26850	20450	6300	210	104000	14478	10206
Average cubic feet per second			0	127	313	394	437	333	106	3	214		
Monthly use in per cent of seasonal			0	7.2	18.5	22.5	25.8	19.7	6.1	0.2			

a Additional acre-feet diverted: November 45 and December 29.
b The 3" unit was a temporary installation during 1957.
c Formerly listed as George P. Ahle.
d Replaces a 6" and 10" unit.
e New installation in 1957.
f Combined acreage for Mile 92.6R and 93.0R.
g Temporary installation for 1957.
h Includes 20 acres of Mayfair lands and 10 acres of Nalsey lands.
i Additional acre-feet diverted: November 441, December 374 and January 63.
j Includes 140 acres of Monsen Estate lands.
k Additional acre-feet diverted: November 13 and December 1.
m Additional acre-feet diverted: November 80.
n Includes 27 acres of O'Sullivan lands.
p Includes 20 acres of Richard Patton lands.
q Replaces a 10" unit.
r Additional acre-feet diverted: December 75.
s Includes 26 acres of Middlecamp lands.
t Formerly listed as Dave George.
u A 4" unit was removed in 1957.
v Includes 378 acres which also received an undetermined amount of well water.
w Formerly listed as Nettie, George and Ella Packer.
x Additional acre-feet diverted: December 20 and January 26.
y Additional acre-feet diverted: December 6.
z Includes 100 acres of Helphenstine lands which also received an undetermined amount of well water.
aa Additional acre-feet diverted: November 65.
ab Additional acre-feet diverted: November 1081.
ac Includes 132 acres of rice and 40 acres of general crops outside the district: Includes 3238 acres of rice and 2354 acres of general crops which also received an undetermined amount of water from plants on Lower Butte Creek, Miles 11.8R(2.6) and 14.4R(0.2): and includes 1606 acres of rice and 1453 acres of general crop lands reused for duck ponds.
ad Combined acreage for Miles 112.4R and 123.9R and plant on Colusa Basin Drain, Mile 54.2L. Includes 144 acres of general crops that received 576 acre-feet of water from Glenn-Colusa Irrigation District plant at Mile 154.8R.
ae Additional acre-feet diverted: November 1.

TABLE 209

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Butte City to Red Bluff)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--BUTTE CITY BRIDGE--	115.8												
--GAGING STATION - SACRAMENTO RIVER AT BUTTE CITY--	115.8L												
Mark Munson	115.8R	1-4"			4	8	12	18	10		52	9	
R. H. Gebicke	115.85L	1-14"			28	83	134	63			308	272	
L. D. Ohlson	115.9L	1-6"				NO DIVERSION							
Manuel Torres	116.37L	1-12"				NO DIVERSION							
Cronin Estate	116.9L	1-16"				NO DIVERSION							
L. D. Ohlson	117.1R	1-10"		7	106	94	147	70	141		565	90	

TABLE 209

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Butte City to Red Bluff)(contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
W. F. Wright, Jr.	117.5R	1-6"				49	40	3	24		116	142	
W. N. Stewart, Jr.	120.3R	1-10"			8	12	15				35	40	
Robert T. Millar	122.3R	1-10"	NO DIVERSION										
Clarence Reed	123.7R	1-6"					24	19			43	31	
P. K. Prieaen	123.8R	1-4"				1					1	2	
Princeton-Codora-Glenn Irrigation District	123.9R	5-24"		7846	9306	7148	7263	7080	4236		42879	a	a
Provident Irrigation District	124.2R	2-24" 1-36" b 2-46"		7340	5548	7115	7307	6670	809	1152	c 35941	d 449	d 6495
J. Bertapelle	124.3R	1-12"	10	97	201	180	323	259	199		e 1269	370	
Joe Thomas	125.5R	f 1-10"				13	13	9	10		45	40	
Duard P. Geis	128.3R	1-6"			22	39	46	14	53		174	87	
P. S. Reager	130.75R	1-8"			45	40	117	49	23		274	227	
--OAGING STATION - SACRAMENTO RIVER AT ORD FERRY--	130.8R												
O. D. Simmons	131.0L	1-4"	NO DIVERSION										
Harry E. Nichols, Jr.	133.45L	1-6"			19	30	61	65			175	90	
Harry E. Nichola, Jr.	133.5L	1-5" g 1-6"				24	19	26	15		84	60	
--STONY CREEK--	138.0R												
--BIG CHICO CREEK--	141.5L												
M. & T. Incorporated and Parrott Investment Company	141.5L	1-20" 4-24"	155	706	1532	1833	4241	3817	1628	36	h 13948	i 3282	i 1723
Frank C. Brazell	141.5L	1-4"			23	25	20	6	18		92	50	
--OLD CHICO LANDING RAILROAD BRIDGE SITE--	142.1												
Paul E. Arneberg	142.8R	1-14"			51	86	94	60	17		308	125	
Leonard Horning	143.6R	1-10"				7	74	40	21		142	47	
Levi Bentz	143.8L	1-6"				1	61	55	8		125	42	
Glenn Beagle	146.3L	1-6"	NO DIVERSION										
Leonard Horning	146.8R	1-3"			3	7	7	4	3		24	8	
Holly Sugar Corporation	148.9R	1-2" 1-10"	NO DIVERSION										
Wallace E. Ferrin and George A. Zundel	149.5L	1-12"			29	360	381	178			948	225	
--GAGING STATION - SACRAMENTO RIVER AT HAMILTON CITY (GIANELLA BRIDGE)--	149.5L												
J. A. and A. E. Lewis	149.7L	1-12"			43	42		53	6		144	45	
James A. Lewis	150.0L	1-10"			41	45	118	109			313	150	
V. G. Strain	150.8R	1-12" 1-16"			11	513	1062	696	71		2353	588	
Joe E. Johnson	152.2R	1-6"			8	15	18	9	8		58	31	
Robert Edwards	152.4R	1-6"	NO DIVERSION										
Jessie and McClain	154.6R	1-5"				23	14				37	12	
G. G. Maas	154.7R	1-4"				2		1			3	9	
Jacinto Irrigation District	154.75R	1-36" 1-48"		9096	10865	9931	10547	10438	9415	2075	j 62367	8354	883
Glenn-Colusa Irrigation District	k 154.8R	1-42" 1-48" 4-66" 3-72" 1-100"		84129	115749	117228	128772	121955	65285	5916	m 639034	n 31642	n 38003
Compton-Delevan Irrigation District	k 154.8R										p	106	790
Maxwell Irrigation District	k 154.8R		NO DIVERSION										
J. Ewert	155.6R	1-4"		7	6	16	17	13	9		q 68	17	
R. Pheiffer	155.7R	1-2½"		5	4	7	8	6	4		r 34	7	
F. Williams	156.0R	1-6"		7	4	7	5	1	10		34	8	
N. H. Penner	156.1R	1-6"		11	33	31	38	43	27		q 183	s 54	
O. L. Shearman	156.8R	1-2½"			2	2	3	2	1		10	4	
Taresh Ranch	158.8R	1-10"			56	112	73	150	56		t 447	120	
Jonathan Garst	161.45L	1-6" 2-8" 1-14"			22	459	486	285	68		1320	435	
--GAGING STATION - SACRAMENTO RIVER AT VINA BRIDGE--	166.5R												
E. L. Dietz	166.7R	1-3"	NO DIVERSION										

TABLE 209

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Butte City to Red Bluff) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct		General	Rice
Russell L. Deckman	166.8R	1-2"				1	1	2	1		5	9	
Ernest Peterson	166.9R	1-6"		4	4	14	9	12			43	33	
--DEER CREEK--	168.5L												
A. J. McFadden	168.5L	1-8"			3	55	21	74	33		186	70	
C. F. O'Connor	168.85R	1-10"				53	83	24	23		183	w 50	
C. F. O'Connor	168.9R	1-6"				35	55	16	15		121	w	
Rumiano Brothers	169.8L	1-10"				42	39	22	15		118	110	
Moritz Thomsen (x)	173.05L	1-8"			23	116	136	83	39		397	104	
Dr. O. T. Wood	173.7L	1-8"			20	11	16	20	1		y 68	z 110	
Dutro Brothers	175.5L	1-4"			13	20	24	25	8		90	35	
Dutro Brothers	176.6R	1-4"			13	16	10	10	14		63	10	
--TEHAMA BRIDGE--	177.5												
--MILL CREEK--	179.0L												
--ANTELOPE CREEK--	182.6L												
Los Molinos Mutual Water Company	187.6L	1-12"	NO DIVERSION										
John Taylor (aa)	188.5L	1-1½"					1				1	1	
Oroville L. Johnson	188.51L	1-2½"	NO DIVERSION										
Henry Kerber	188.8L	1-10"			60	294	195	185	168		902	126	
Diamond Match Company (ab)	191.5R	2-10"	298	184							482	43	
--RED BLUFF BRIDGE--	193.45												
Arthur Stanley	196.5L	1-2½"	NO DIVERSION										
S. and E. Erickson	196.6L	1-5"			12	18	21	7	7		65	34	
Diamond Match Company	197.0L	1-8"			2	79	37	6			124	125	
Carle Fahle	197.1L	1-3"			1	2	3	3	1		10	8	
J. W. Bulkely	197.5L	1-1¼"					1	1	1		3	4	
C. A. Droz	198.0L	1-3"			6	27	31	27	22		113	71	
C. A. Droz	198.3L	1-3"				14	14	13	15		56	12	
BUTTE CITY TO RED BLUFF Totals			460	109400	143900	146400	162300	152800	82540	9180	807000	48225	47894
Average cubic feet per second			8	1839	2341	2460	2639	2485	1387	149	1661		
Monthly use in per cent of seasonal			0.1	13.6	17.8	18.1	20.1	18.9	10.2	1.1			

a Combined acreage for Miles 112.4R and 123.9R and plant on Colusa Basin Drain, Mile 54.2L.
b Previously listed as 36" units.
c Additional acre-feet diverted: November 2281 and December 2606.
d Combined acreage for this plant and plants on Colusa Basin Drain, Miles 24.2R (1.5W), 25.8L (2.5W), 27.2R (0.1) and 27.2R (2.6W). Includes 390 acres of rice and 186 acres of general crops that received 3864 acre-feet of water from Glenn-Colusa Irrigation District plant at Mile 154.8R.
e Additional acre-feet diverted: November 53, December 52 and January 5.
f Previously listed as a 12" unit.
g The 6" unit was installed in 1957.
h Additional acre-feet diverted: November 137, December 247, January 20 and February 235.
i Includes acreage as follows: M.&T. Incorporated - general 945, rice 641; Parrot Investment Company - general 2337, rice 1082. This acreage also received an undetermined amount of water from Butte Creek.
j Quantities shown are diversions at Mile 154.75R to Glenn-Colusa Irrigation District canal. Additional acre-feet diverted: November 6931 and December 1367.
k This is a common point of diversion for Glenn-Colusa, Compton-Delevan and Maxwell Irrigation Districts.
m Additional acre-feet diverted by gravity from Stony Creek as follows: March 10300, April 10700, May 7460 and June 550. An additional 2061 acre-feet diverted by plant on Colusa Basin Drain, Mile 29.8R (1.4). Includes 3864 acre-feet served to 390 acres of rice and 186 acres of general crops listed for Mile 124.2R. Includes 576 acre-feet served to 144 acres of general crops listed for Mile 112.4R. Additional acre-feet diverted: November 6931 and December 7651.
n This acreage also received an undetermined amount of water by controlled drainage. Of this acreage, 1104 was reused for duck ponds. Includes the following acreage outside the district: general 436 and rice 1180.
p Glenn-Colusa Irrigation District served 6644 acre-feet of water to this district.
q Additional acre-feet diverted: November 2 and December 1.
r Additional acre-feet diverted: November 2, December 1, and January 1.
s Includes 4 acres of Dennis lands.
t Additional acre-feet diverted: December 1.
u The 6" unit was a temporary installation during 1957.
v One 8" unit was installed in 1957.
w Combined acreage for Miles 168.85R and 168.9R.
x Installed prior to 1957, not previously listed.
y Additional acre-feet diverted: January 1 and February 2.
z Includes 80 acres which also received an undetermined amount of water from Los Molinos Mutual Water Company.
aa Formerly listed as Henry Tieden.
ab Temporary installation during 1957.

TABLE 210

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Red Bluff to Redding)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GAGING STATION - SACRAMENTO RIVER NEAR RED BLUFF--	198.6												
C. T. Loftus	205.1L	1-4"		33	26	45	52	52	43		a 251	62	
--BEND FERRY BRIDGE--	207.0												
D. Mills	207.3L	1-8"		15	46	95	106	110	68		440	110	
D. Mills	207.5L	1-12"		35	89	185	243	184	100		836	256	
G. Tetzlaff	209.0L	1-4"				NO DIVERSION							
Table Mountain Gun Club	210.0R	1-2½"						1	5		6	8	
J. F. Nunes	213.0R	1-7"					27	11	13		51	30	
F. L. Jelly	213.5L	1-3"				NO DIVERSION							
J. F. Nunes	216.0R	1-5"				22	29	36	2		89	30	
--JELLY FERRY BRIDGE--	216.0												
W. A. Hunaeus	216.4L	1-3"				9	17	9	8		43	13	
Haakonson Brothers	217.5L	1-5"		11	39	114	110	82	46		402	73	
J. L. Haskins	217.9L	1-6"				77	163	81	20		341	45	
Rio Alto Rancho	221.0R	b 1-12"		18	59	574	551	474	431		2107	498	
--BATTLE CREEK--	221.5L												
--COTTONWOOD CREEK--	222.2R												
--GAGING STATION - SACRAMENTO RIVER AT BALLS FERRY--	224.5												
C. D. Draucker	228.0R	1-16"		5	49	107	107	120	91		479	65	
--ANDERSON BRIDGE--	232.9												
Floyd Leonard	233.5L	1-6"		1	6	22	36	48	8		121	65	
United States Plywood Corporation	234.0R	1-8"	44	116	25	59	65	78	83	84	c 554	23	
--CLEAR CREEK--	237.1R												
William Menzel Company, Incorporated	240.2L	1-12"				359	373	292	65		1089	168	
Lou Gerard	240.3L	1-2"				7	7	8	4		26	5	
John Gladwell	240.4L	1-4"				NO DIVERSION							
Anderson-Cottonwood Irrigation District	240.5L	4-16"		1432	1791	3565	3758	3717	2748		d 17011	2293	
--GAGING STATION - SACRAMENTO RIVER NEAR REDDING--	240.7												
Riverview Golf Course	240.8L	1-4"		10	12	24	18	31	22	1	e 118	37	
--HIGHWAY 44 BRIDGE--	242.0												
--HIGHWAY 99 BRIDGE--	245.9												
Anderson-Cottonwood Irrigation District	246.0R	Gravity		21105	23161	24288	25059	24336	22857	10798	151604	20267	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	246.25												
Maybell Diestelhorst	246.3R	1-8"					64	61	31		156	22	
--OLD REDDING - YREKA BRIDGE--	246.4												
City of Redding	246.7R	3-8"	192	258	301	565	683	633	490	195	g 3317	Municipal	
--GAGING STATION - SACRAMENTO RIVER AT KESWICK--	250.5												
RED BLUFF TO REDDING													
Totals			240	23040	25600	30120	31470	30360	27140	11080	179000	24070	0
Average cubic feet per second			4	387	416	506	512	494	456	180	368		
Monthly use in per cent of seasonal			0.1	12.9	14.3	16.8	17.6	17.0	15.1	6.2			
SACRAMENTO RIVER - SACRAMENTO TO REDDING													
Totals			3500	199800	319900	341100	394300	357100	180400	25200	1821300	165761	106076
Average cubic feet per second			57	3358	5202	5732	6414	5808	3032	410	3748		
Monthly use in per cent of seasonal			0.2	11.0	17.6	18.7	21.7	19.6	9.9	1.4			

a Additional acre-feet diverted: November 5, December 8 and January 4.
b Previously listed as an 18" unit.
c Additional acre-feet diverted: December 38 and January 23.
d Additional acre-feet diverted: November 35, December 59 and January 78.
e Additional acre-feet diverted: November 4, December 3 and January 1.
f Additional acre-feet of diversion and operational spill: November 23774 of which 22585 was spilled and December 23370 of which 22202 was spilled. Additional acre-feet diverted: January 8523.
g Additional acre-feet diverted: November 192, December 242, January 226 and February 198.

TABLE 211

DIVERSIONS AND ACREAGES IRRIGATED - COLUSA BASIN DRAIN*
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr	May	June	July	Aug	Sept	Oct		General	Rice
--GAGING STATION - COLUSA BASIN DRAIN AT KNIGHTS LANDING (KNIGHTS LANDING OUTFALL GATES)--	0.2SL												
River Farms Company	0.3L	1-10" 1-20"				NO DIVERSION							
--RIDGE CUT AT KNIGHTS LANDING--	0.4R												
John J. Anderson	1.45R	1-16" 1-20"			54	213	82				349	a 270	
John C. Cooling	4.2R(0.1)	1-16"				NO DIVERSION							
J. E. Taylor	4.2R(0.7)	1-12"		13	36	39	39	20	26	3	176	65	
B. C. and T. O. Tolson	4.2R(0.8)	1-18"				NO DIVERSION							
Layton Knaggs	4.35R	1-20"			125	425	443	205			1198	400	
Layton Knaggs	7.2R	3-16"			857	548	543	510	334	70	2862	b 180	268
George E. Youngmark	8.8R	1-14" 1-16"		72	505	350	358	372	113		1770		160
Hershey Estate	11.15R	1-16" 1-18"		53	746	565	575	593	157		c 2689		277
Hershey Estate	13.75R	1-16"		91	673	381	398	362	87		1992		d 299
C. M. Mumma	14.75R	1-16"		5	318	274	233	144	57		1031		88
--COUNTY LINE BRIDGE--	15.25												
J. V. Doherty	15.5R	1-12"				NO DIVERSION							
M. T. Emmert	15.75R	1-12"			155	125	93				373	160	
H. B. West, Jack Hughes, and Dr. R. C. West	18.1R	1-15" 1-20"			58	131	118	208			e 515	f 260	
James Iriart	18.5R(0.8)	1-14"				NO DIVERSION							
--RECLAMATION DISTRICT 108 GRAVITY DRAIN--	19.9L												
Reclamation District 108	19.9L	1-16" 1-24" 1-30"		464	594						g 1058		
William West	20.0R	1-15"			163	275	427	364	183	2	h 1414	i 460	
B. W. Whitmire and D. S. Adams	21.35R	2-16"	28	287	26	95	340	154	162		1092	310	
Albert Brandenburg	22.15R	1-14"			296	336	483	41	188		1644	176	109
--GAGING STATION - COLUSA BASIN DRAIN NEAR COLLEGE CITY--	22.5L												
Aileen Browning Armstrong	22.75R(0.1)	1-16"				17	124	88			229	100	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6												
Balsdon Ranch	24.6R(0.3)	j 1-16"		3	2						k 5		
Balsdon Ranch	Opp. 24.6L(0.3)	2-16" 1-20"	67	927	625	1358	1222	1200	657	5	m 6061	n 2297	
Luta King	25.1R	1-16"				NO DIVERSION							
Gertrude M. Sherer	25.3L	1-16"					37	37			74	126	
Gertrude M. Sherer	25.5R	1-10"				11		12			23	40	
--GRIMES - COLLEGE CITY CAUSEWAY--	25.5												
Fred Schutz	25.9L(0.2)	1-16" 1-20" 1-24"	66	41	590	302	578	103	49	2	1731	829	
Roy E. Kitts	26.4R(0.1)	1-18"		10	202	174	192	279	133		990	202	142
C. W. and M. F. Struckmeyer	27.25L(0.3)	1-16"				445	384	354	112		1295	360	
William P. Wallace Ranch	28.0R	1-12" 1-16"				NO DIVERSION							
--WALLACE CROSSING (OLD MERIDIAN - WILLIAMS BRIDGE)--	29.2												
Olive Percy Davis, et al.	29.79L	Gravity				NO DIVERSION							
Olive Percy Davis, et al.	29.8R(0.4)	1-16"		433	624	712	649	874			3492		190
Fred Wilkins	29.8R(1.0)	1-14"				NO DIVERSION							
Glenn-Colusa Irrigation District	29.8R(1.4)	1-20" 2-38"		356	725	378	361	90	137	11	p 2058		
Olive Percy Davis, et al.	31.5L	1-24"				NO DIVERSION							
Olive Percy Davis, et al.	32.1R	1-16"				NO DIVERSION							
Federal Fish and Wildlife Service	32.6R	1-16"				184	331	464	456	368	q 1803	r 257	
J. G. Olvey	32.6L	1-14"									s	t 20	
Arata Brothers	32.9L	1-8"							10	58	u 68	t 25	
Richard Moore	33.5L	1-12" 1-16"								2	2	t 8	

TABLE 211

DIVERSIONS AND ACREAGES IRRIGATED - COLUSA BASIN DRAIN*(contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank e e	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
Federal Fish and Wildlife Service	36.65R	1-15" 1-20"		320	1271	1050	1070	1202	1054	1084	v 7051	r 200	r 640
Federal Fish and Wildlife Service	37.0L(0.1)	1-15"				125	79	92			296	r 140	
--GAGING STATION - COLUSA BASIN DRAIN AT HIGHWAY 20--	37.0												
I. G. Zumwalt	39.2L	8-20"		2037	3695	3787	4243	3974	1519	6	w 19261	x,y 2838	y 1684
East Williams Land Company	39.2R	1-16"						7			z 7		
J. H. Cave	39.98R	1-10"									aa		
Leon Paulo and L. W. Seaver (ab)	40.0L	3-16"	52	388	430	710	855	772	366	87	ac 3660	576	
J. H. Cave	40.5R	1-14"									ad		
Lloyd W. Seaver and F. J. Byington	41.5L	4-16"		306	787	546	922	977	209	24	3771		313
Coffman and Campbell	42.6L	1-16"				NO DIVERSION							
Louis G. Sutton	42.7R	1-16"				NO DIVERSION							
Watt Brothers	43.2L	j 1-16"		72	417	362	391	414	192		1848		171
Watt Brothers	43.4R	1-12"		7	221	211	210	200	71		920		101
S. Ash	45.0L	2-16"		168	483	431	781	642	260		ae 2765	105	268
Charles W. Welch	45.0R	af 2-12" 1-15"		13	582	438	570	663	120		2386		225
El Dorado Sportsmans Club	46.5R	1-16"	10	7	19						k,ag 36		
I. G. Zumwalt	46.75L	1-24"		471	533	613	911	835	99	60	3522		420
Lloyd Kahn	47.5L(0.4)	2-16"		378	478	380	396	383	58	5	2078		ah 272
Charles W. Welch	48.7L(0.2)	1-12"				NO DIVERSION							
Charles W. Welch	48.7L(0.3)	1-12"				NO DIVERSION							
Charles W. Welch	48.7R(0.8)	1-14" 1-16" 2-20"	12	1057	2114	1469	1830	1591	576	474	ai 9123	aj 600	140
Del Valley Farms, Incorporated	49.1R	1-10"								42	ak 42	t 60	
Lynn and Bohne	49.58L(0.9)	1-10" 1-12"		376	340	401	508	561	81		2267		265
J. W. Guerin and W. J. Thompson (am)	49.59R	1-12"				57	82		1	22	an 162	t 74	
Helphenstine Rice Lands	49.69L	1-16"		418	686	667	662	662	241		ap 3336		ah 260
E. Butler, E. Meyer, and J. Jones	49.7L	1-14"		105	269	304	359	366	75	11	aq 1489	17	115
Manuel Barrett	Opp. 53.6R(1.3)	1-12"		44	250	258	258	242	36	27	1115		180
Princeton-Codora-Glenn Irrigation District	54.2L	2-18"		1092	1470	1228	1166	1146	272		6374	ar	ar
John S. Lopes	54.9R	1-12"				NO DIVERSION							
J. P. Cardoza	55.0R	1-4"	3	8	1	5	7	8	4		as 36	7	
Provident Irrigation District (Willow Creek Plant)	Opp. 57.5R(2.4)	1-24" 1-36"		144	118	12	2	32			at 308		
--LATERAL HIGHWAY - BUTTE CITY TO WEST SIDE--	57.5												
Walter McGowan	58.4L	1-8" 2-16"		103	783	672	676	666	211		3111		126
Joe Navarro	59.0R	1-18"		25		137	51	46	48		307	100	
Provident Irrigation District (Drain #55)	Opp. 61.2R(1.5)	Gravity	419	3970	5587	4885	5923	6159	5306	1856	at au 34105		
Dorothy Foote	62.4L	1-16"				NO DIVERSION							
Provident Irrigation District	Opp. 62.8L(2.5)	2-16"		400	603	785	701	556	40		at 3085		
Terrill Knight	63.2L	1-12" 1-16"		66	230	225	190	186	50		947		59
Demmer and Bohach (av)	63.7L	1-12"		33	247	255	251	235	140		1161	aw	aw
John M. Demmer and Mary R. Bohach	64.1L	1-12" 1-14"		204	396	422	480	479	120		ax 2101	aw 28	aw 197
Provident Irrigation District (Coluaa Drain)	64.2R(0.1)	1-20" 1-24"				NO DIVERSION							
Provident Irrigation District (Drain #13)	Opp. 64.2R(2.6)	1-16" 1-20" 1-24"		1301	1838	1956	2102	1793	876		at 9866		
Provident Irrigation Diatrict (Drain #13)	Opp. 64.2R(2.6)	Gravity		440	1504	934	941	986	1006	671	at ay 6482		
COLUSA BASIN DRAIN Totals			660	16710	32730	30660	34830	32650	15890	4890	169000	11290	7569
Average cubic feet per second			17	272	532	515	566	531	267	80	348		
Monthly use in per cent of seasonal			0.4	9.9	19.4	18.1	20.6	19.3	9.4	2.9			

TABLE 211

DIVERSIONS AND ACREAGES IRRIGATED - COLUSA BASIN DRAIN*(contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

* Carries return water from Colusa Basin along west border of Reclamation Districts 108 and 787 and discharges to Sacramento River at Mile 34.15R or is partially diverted via Knights Landing Ridge Cut.
** Mileage along Colusa Basin Drain from junction with Sacramento River.
a Of this acreage, 4 was reused for duck ponds.
b Includes 105 acres which also received an undetermined amount of well water.
c Additional acre-feet diverted: November 134, December 113, and January 21.
d Of this acreage, 25 was reused as duck clubs.
e Additional acre-feet diverted: January 180.
f Of this acreage, 180 was reused for duck clubs.
g This water was served to acreage listed for Mile 63.2R, Sacramento River.
h Additional acre-feet diverted: November 36 and December 4.
i Of this acreage, 40 was reused as duck clubs.
j A 16" unit was removed in 1957.
k All stock water.
m Additional acre-feet diverted: January 105 and February 56.
n Includes 137 acres which also received an undetermined amount of well water.
p This water was served to acreage listed for Mile 154.8R, Sacramento River. Includes an undetermined amount of water return to Colusa Basin Drain by spill.
q Additional acre-feet diverted: November 337 and December 325.
r All duck refuge lands.
s Acre-feet diverted: November 50, December 35 and January 13.
t All duck club lands.
u Additional acre-feet diverted: November 1 and January 16.
v Additional acre-feet diverted: November 1181, December 888 and January 127.
w Additional acre-feet diverted: November 88 and December 52.
x Of this acreage, 400 was reused as duck clubs.
y This acreage also received an undetermined amount of controlled drainage water.
z Water used to soak ditch banks. Additional acre-feet diverted: November 55.
aa Acre-feet diverted: November 50 and December 6.
ab Formerly listed as A. E. Zaniboni and L. W. Seaver.
ac Additional acre-feet diverted: November 89, December 80, January 29 and February 13.
ad Acre-feet diverted: November 11.
ae Additional acre-feet diverted: November 9, December 83, and January 36.
af Replaces a 16" unit. One 12" unit was a temporary installation during 1957.
ag Additional acre-feet diverted: November 65 and December 23.
ah Of this acreage, 15 was reused for duck clubs.
ai Includes an undetermined amount of water derived from Stone Corral Creek. Additional acre-feet diverted: November 340, December 102 and January 14.
aj All reused for duck clubs.
ak Additional acre-feet diverted: November 92, December 17, and January 14.
am Formerly listed as Leo Yates
an Additional acre-feet diverted: November 51 and December 14.
ap Additional acre-feet diverted: November 40, December 17, and January 11.
aq Additional acre-feet diverted: November 20, December 4, and January 4.
ar See plant at Mile 112.4R, Sacramento River.
as Additional acre-feet diverted: November 11, December 13, January 3, and February 5.
at This water was served to acreage listed for Mile 124.2R, Sacramento River.
au Additional acre-feet diverted: November 278.
av Installed prior to 1957. Not previously listed.
aw Combined acreage for Miles 63.7L and 64.1L.
ax Additional acre-feet diverted: November 18, December 27 and January 10.
ay Additional acre-feet diverted: November 345.

TABLE 212

DIVERSIONS AND ACREAGES IRRIGATED - KNIGHTS LANDING RIDGE CUT
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar	Apr	May	June	July	Aug.	Sept.	Oct		General	Rice
--STATE HIGHWAY 24 BRIDGE--	0.3												
--SOUTHERN PACIFIC RAILROAD BRIDGE--	0.7												
E. L. Wallace	0.8R	1-16" 1-20"		469	895	1549	1888	2097	583		7481	a 1587	a 250
M. R. Richardson	0.82L	1-14"		228	335	246	255	250	133		1447		145
--RECLAMATION DISTRICT 730 DRAINAGE PLANT #2--	3.2R												
Ralph W. Pollock	3.5L	Gravity				3	60	123	162		348	60	
W. K. Lowe	4.3R	3-16"	NO DIVERSION										
Ralph W. Pollock	4.55L	1-16"				17	143	74	2		236	135	
Albert Bacchini	4.7R	1-6"			34	1	24	5	2		66	23	
Hershey Estate	4.75L	1-24"			7	195	327	378	36		943	b 698	
Hershey Estate (c)	5.25R	1-16"				172	136	223			531	180	
--WEST LEVEE YOLO BYPASS--	6.3												
Hershey Estate	6.3R	Gravity	NO DIVERSION										
Hershey Estate	6.3	Gravity					524	384	184		1092	717	
Sacramento River Ranch	6.3L			48	485	1112	1410	1410	864		d 5329	e 1040	460
KNIGHTS LANDING RIDGE CUT Totals			0	740	1760	3290	4770	4940	1970	0	17470	4440	855
Average cubic feet per second			0	13	29	55	78	80	33	0	36		
Monthly use in per cent of seasonal			0	4.3	10.0	18.9	27.3	28.3	11.2	0			

* Mileage downstream from head on Colusa Basin Drain near Knights Landing. Flow is principally Colusa Basin Drainage diverted to the Ridge Cut by checking at Knights Landing Outfall Gates.
a This acreage also received an undetermined amount of well water.
b This acreage also received an undetermined amount of water from Mile 28.1R (1.3), Sacramento River.
c Previously listed as Layton D. Knaggs.
d Includes 667 acre-feet of water served to 740 acres of general crops in Reclamation District 1600 and 163 acre-feet served to 280 acres listed for Mile 16.62R, Sacramento River.
e Includes the 740 acres irrigated in Reclamation District 1600. See note (d).

TABLE 213

DIVERSIONS AND ACREAGES IRRIGATED - YOLO BYPASS (East Borrow Pit of Tule Canal)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Swanston Land Company	a,b 1.8S(0.5)	c 1-14"					29	29			58	20	
Swanston Land Company	a 1.5S	1-14"					74	36			110	55	
Swanston Land Company	a 1.1S	1-18" 1-20"				NO DIVERSION							
--GAGING STATION - YOLO BYPASS BELOW SACRAMENTO BYPASS--	1.0S												
Swanston Land Company	a 0.8S	1-14"					210	174			384	290	
Swanston Land Company	a 0.5S	d 2-14"			230	394	414	629	585	238	2490		187
--NORTH LEVEE SACRAMENTO BYPASS - RECORDING GAGE--	0.0												
Swanston Land Company	a 1.8N	1-16" 1-20"				NO DIVERSION							
Ensher, Alexander and Barsoom	2.4N	1-20"			11	104	690	630	139		1574	e 834	
--SACRAMENTO - WOODLAND HIGHWAY --	6.1BN												
--SACRAMENTO - WOODLAND RAILROAD BRIDGE--	6.2N												
City of Woodland	a 6.5N	1-16"					210	200			410	f 390	
--CACHE CREEK--	7.0N												
Hershey Estate	a 9.5N	1-16"				NO DIVERSION							
--KNIGHTS LANDING RIDGE CUT--	9.6N												
--RECLAMATION DISTRICT 1600 DRAINAGE PLANT--	10.0N												
YOLO BYPASS (East Borrow Pit of Tule Canal) Totals			0	0	240	500	1630	1700	720	240	5030	1589	187
Average cubic feet per second			0	0	4	8	26	28	12	4	10		
Monthly use in per cent of seasonal			0	0	4.8	9.9	32.4	33.8	14.4	4.7			

* Mileage is given northerly or southerly from North Levee of Sacramento Bypass. Diversions from East Borrow Pit of Yolo Bypass are primarily from water diverted through Knights Landing Ridge Cut.
a Indicates that land irrigated is within Bypass area.
b Previously listed as Mile 1.8S.
c Replaces a 16" and an 18" unit.
d One 14" unit was a temporary installation during 1957. A 12" unit was removed.
e This acreage also received an undetermined amount of well water.
f The main source of water for this acreage is the Woodland Sewer Farm.

TABLE 214

DIVERSIONS AND ACREAGES IRRIGATED - LOWER BUTTE CREEK AND BUTTE SLOUGH
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
	*					Lower Butte Creek							
Reclamation District 1004	3.2R	1-14"					22				22	35	
Reclamation District 833	3.3L	1-16"				159	418	437			1014	625	
Colusa Shooting Club	4.1L	1-16"			377		59	283			719	140	
West Butte Farms Company	4.25L	1-18"				93	375	149			617	657	
Reclamation District 1004	4.3R	1-20" 1-24"				39	379	535		432	a 1385	b 271	
El Anzar, Incorporated	5.7L	1-12"			47						47	160	
Field and Tule	7.1L	1-16"		87	211	300	354	370			c 1322		110
White Mallard Duck Club	11.8R	Gravity								100	d 100	e 100	
White Mallard Duck Club	11.8R(0.5)	1-12" 1-16"							120	386	f 506	e 100	
Reclamation District 1004	11.8R(2.6)	Gravity		235	925	1062	870	955	1124	3014	g 8185	e 1512	
Reclamation District 1004	Opp. 14.4R(0.2)	Gravity		784	286			24	1090	1444	h 3628		
Murdock Land Company	Opp. 14.4R(0.4)	1-14"				NO DIVERSION							
--GRIDLEY ROAD BRIDGE--	15.4												
Butte Basin Gun Clubs	15.6L	Gravity									i	e 4000	
Murdock Land Company	19.3R	1-16"		22	104	85	124	101	71		507	120	
--BIGGS - AFTON ROAD BRIDGE--	19.4												
Murdock Land Company	Opp. 19.6R(0.8)	1-14"				NO DIVERSION							
Homar and Homar A. Charlea	Opp. 20.7R(0.8)	2-16"		11	68	216	125	83	72	81	j 656	104	

TABLE 214

DIVERSIONS AND ACREAOES IRRIGATED - LOWER BUTTE CREEK AND BUTTE SLOUON (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar -Oct Acre Feet	Acreage Irrigated	
			Mar	Apr.	May	June	July	Aug.	Sept	Oct		General	Rice
McGowan Brothers	Opp. 20.9R(0.5)	1-16"				NO DIVERSION							
McGowan Brothers	21.0R	1-20"		57	427	651	685	698	181		2699		278
E. McPherrin	21.1L	1-16" 1-20"		757	1284	1400	1625	1643	576		7285		k 852
R. H. Nulen Estate	Opp. 21.4R(1.0)	1-16"				NO DIVERSION							
McGowan Brothers	Opp. 22.4R(0.7)	m 1-16"		85	1						86	100	
McGowan Brothers	Opp. 22.4R(1.1)	1-16"				NO DIVERSION							
--RICHVALE - BUTTE CITY ROAD BRIDGE--	22.5												
McGowan Brothers	23.0R	n 1-16" 1-20"		926	554						1480	450	
Harris Lands	23.0L	1-16"		23	31	50	78	110	79	7	p 378	78	
McGowan Brothers	Opp. 23.0R(0.75)	q 1-16"			140						140	200	
McGowan Brothers	Opp. 23.5R(1.2)	1-16"				NO DIVERSION							
McGowan Brothers	Opp. 24.0R(0.5)	1-16" 1-20"		545	591	821	811	684	129		3581	k 354	
Ruth Baldwin and Charles K. Layton	Opp. 25.6L(0.6)	2-16"				NO DIVERSION							
Arrowhead Ranch (r)	28.0R	1-16"		29	189	238	344	232	54		1086	s 675	s 216
Arrowhead Ranch (r)	29.2L	1-8"			1	13	48	123	132	9	326	80	
--WESTERN CANAL DAM--	30.3												
	**					Butte Slough							
--SACRAMENTO RIVER JUNCTION--	0.0												
Butte Slough Irrigation Company	0.0	Gravity									t		
M. Marty	0.3W	1-10"		20	135	114	163	117	77	5	u 631	247	
--BUTTE CREEK--	0.6E												
Joe Marty	1.0W	1-16"			13	7	36	46	26		128	45	
Mrs. Mamie M. Smith	1.4E	1-8"				1	124	115			240	137	
Fred Tarke	1.9W	1-14"				NO DIVERSION							
--MAWSON BRIDGE--	2.1												
C. W. Rawley	2.5W	1-14"		27	12	212	128	240	43		662	v 383	
J. E. Smith	3.0W	1-10"				21	110	47	56		234	125	
Pearl Clark and Alice Brewer	3.5W	1-10"			17	30	55	43	57		202	95	
P. A. Reische	3.7W	1-10"		7		5	41	11			64	52	
Granniman and Fleth	4.08W	1-16"					11				11	9	
P. A. Reische	4.1W	1-10"		13	2	12	90	9	1		127	w 105	
W. J. Hankins	4.8W	1-12"				132	26	40			198	250	
P. B. Hensen	5.1W	1-12"		19	20	142	63	89	28		361	160	
LOWER BUTTE CREEK AND BUTTE SLOUGH Totals			0	3650	5440	5800	7160	7180	3920	5480	38630	11015	1810
Average cubic feet per second			0	61	88	98	117	117	66	89	79		
Monthly use in per cent of seasonal			0	9.4	14.1	15.0	18.6	18.6	10.1	14.2			

* Mileage on Butte Creek from junction with Butte Slough at Mile 0.6E.
** Mileage on Butte Slough from junction with Sacramento River at Mile 84.0L.
a Includes an undetermined amount of water served to acreage listed for Mile 89.25L, Sacramento River. Additional acre-feet diverted: November 999, December 686 and January 76.
b This acreage was reuaed for duck ponds.
c Additional acre-feet diverted: January 62.
d Additional acre-feet diverted: November 100, December 100 and January 50.
e All duck club lands.
f Additional acre-feet diverted: November 149, December 155 and January 27.
g Includes an undetermined amount of water served to acreage listed for Mile 112.1L, Sacramento River. Additional acre-feet diverted: November 3564, December 3683 and January 992.
h This water waa served to acreage listed for Mile 112.1L, Sacramento River. Additional acre-feet diverted: November 1485, December 1535 and January 744.
i Estimated acre-feet diverted: November 3000 and December 1500.
j Additional acre-feet diverted: November 75, December 86, and January 84.
k This acreage also received an undetermined amount of well water.
m A 14" portable unit also operated at this location in 1957.
n A 14" and s 16" portable unit also operated at this location in 1957.
p Additional acre-feet diverted: November 58 and January 35.
q A 16" portable unit operated at this location in place of the electric unit during 1957.
r Installed prior to 1957. Not previously listed.
s This acreage also received an undetermined amount of controlled drainage water.
t Flow in Butte Slough, derived from Butte Creek, is controlled by outfall gates at junction with Sacramento River and is thereby retained to discharge into East and West Borrow Pits of Sutter Bypass near "Long Bridge". The outfall gates are maintained by the Depsrtment of Water Reaourcea and are operated cooperatively with the Butte Slough Irrigation Company.
u Additional acre-feet diverted: December 26.
v Includes 80 acres of Straub lands and 25 acres of Hickson lands.
w Includes 16 acres of C. P. Reische lands.

TABLE 215

DIVERSIONS AND ACREAGES IRRIGATED - SUTTER BYPASS AND SACRAMENTO SLOUGH
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
	*					West Borrow Pit of Sutter Bypass (a)							
--SOUTHERN PACIFIC RAILROAD BRIDGE--	2.5												
C. Fred Holmes	b 8.0R	1-18"				NO DIVERSION							
--STATE HIGHWAY 24 CAUSEWAY--	12.7												
Sutter Mutual Water Company	17.5R	1-18"		36	75	162	200	108	27		608	313	
--SOUTH LEVEE OF TISDALE BYPASS--	18.9R												
--RECLAMATION DISTRICT 1660 GRAVITY DRAIN--	19.3R												
G. Guisti and Sons	23.7R	1-16" 1-24"		43	236	1280	1870	1804	587		5820	653	c 269
Butte Slough Irrigation Company Limited	25.0R	Gravity	88	438	496	492	567	551	68		2700	d	d
Butte Slough Irrigation Company Limited	28.4R	Gravity	204	1223	1721	1982	2323	2208	671		10332	d 4229	d 450
Fred Tarke	28.6R	1-4" e 1-12"				14	15	45	11		85	60	
Frye Brothers	29.0R	1-7"				44		23			67	21	
--STATE HIGHWAY 20 BRIDGE--	29.1												
Fred Tarke	29.2R	1-10"		17	5	10	1	1	1		35	32	
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	29.25												
	**					East Borrow Pit of Sutter Bypass (a)							
R. E. Hughes #8	b 0.95S	1-16"		93	555	639	540	350	28		2205	80	230
T. H. Richards	0.5S				785	611	742	889	399		3426	160	180
--WILLOW SLOUGH--	0.0												
R. E. Hughes #7	b 0.5N	1-14" 1-16"		17	102		362	148			629	308	
--RECLAMATION BOARD DRAINAGE PLANT #1--	1.4N												
Cliff P. Childers	8(0.3)	1-16"		10	59		71	23			163	208	
Cliff P. Childers	8(1.29)	1-16"		230	201	422	390	217	11		1471	80	200
E. H. Christensen and Sons	8(1.3)	1-16"		65	72		8				145	300	
E. H. Christensen and Sons	8(1.75)	1-16"		210	433	447	615	582	125		2412		400
E. H. Christensen	8(2.8N)	1-12"				NO DIVERSION							
E. H. Christensen	8(3.3)	f 1-14" 1-16"			39						39	300	
E. H. Christensen	8(4.0)	1-18"		9	339	413	377	226			1364	300	
Rai Brothers	8(4.3)	1-12"				NO DIVERSION							
E. H. Christensen	8(4.35)	1-14"				346	160	350			856	300	
R. E. Hughes #6	b 1.5N	1-16"		50	333	599	629	601	199		2411	162	135
R. E. Hughes #5	b 2.9N	1-14"					282	120			402	326	
Leona Hughes	b 4.0N	1-14" 1-16"			235	221	418	392	78		1344	310	127
--STATE HIGHWAY 24 CAUSEWAY--	4.3N												
Leona Hughes	b 4.5N	1-14"				NO DIVERSION							
Ira Mulligan	5.7N	1-16"		56	371	564	563	681	318		2553	240	135
R. J. Hughes #2	b 5.9N	1-14"		6	33		238	204			481	400	
J. Etcheverry	5.91N	1-14"		39	660	708	527	661	226		2821	310	130
O. O. Orrick	b 6.9N	2-16"			156		336	194			686	450	
Ira Mulligan	7.1N	1-16"				309	255				564	g 460	
--GILSIZER SLOUGH--	8.0N												
O. O. Orrick	b 8.0N(0.45)	1.16"			373	681	524	545	386		2509		135
Crepps and Middleton	b 9.99N	1-15"			6	75	193	218	50		542	h 50	h 150
Crepps and Middleton	b10.0N	1-16"		10	65	122	63	68	336	131	h,i 795	j 200	
--RECLAMATION BOARD DRAINAGE PLANT #2--	10.0N												
Crepps and Middleton	88(0.3)	1-12"				NO DIVERSION							
Dettling Brothers	88(0.9)	1-20"			111		112	89			312	225	
Rodeo Rooster Club	88(1.5)	1-3"				NO DIVERSION							
Sutter Extension Water District	88(2.0)	1-20" 1-30"		376	533		118	1775	1074	712	k 4588	m	m
Ira Mulligan	88(2.3)	1-10"		6	4	35	19			4	n 68	p 30	
Ira Mulligan	88(2.5)	1-16"			139	204	713	566	133		1755	g	

TABLE 215

DIVERSIONS AND ACREAGES IRRIGATED - SUTTER BYPASS AND SACRAMENTO SLOUGH (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Bridge Investment Company	88(2.6)	1-16" 1-20"	29	261	728	759	933	658	226		3594	795	90
Bridge Investment Company	88(2.65)	1-14" 1-20"		159	1581	977	1178	1079	641		q 5615	r 206	180
Bridge Inveatment Company	88(3.0)	1-12"		47		11	65	29			152	60	
Percy Davis	88(4.5)	1-12"		40	113	103	97	71	66	11	s 501	160	
Sutter Extension Water District	88(6.7)	1-8" 1-20"		64	350	150	964	898	206		2632	m	m
Federal Fish and Wildlife Service	b 11.5N	1-10"	NO DIVERSION										
Federal Fish and Wildlife Service	b 16.3N	1-20" Gravity		164	1159	1332	1282	1511	1791	998	u 8237	v 250	v 450
R. A. Schnabel	b 16.4N	1-14"			4	29	23	45	18	9	128	w 35	
--WADSWORTH CANAL--	16.5N												
R. A. Schnabel	ψ(1.0L)	1-16"		103	483	522	576	521	237		2442	68	110
Fred S. Betty	ψ(1.0R)	1-10"		25	42	56	85	81	66		355	60	
H. T. and H. D. Brown	ψ(1.35R)	1-10" 1-12"	NO DIVERSION										
A. H. Muns	ψ(1.36R)	1-16"		59	596	507	581	562	311		2616	40	80
Vesper Kellogg	ψ(1.5L)	1-14"							43		43	90	
Albert Thomasen	ψ(1.7R)	1-16"	NO DIVERSION										
--STATE HIGHWAY 20 BRIDGE--	(2.0)												
Epperson, Kennedy, and Joaquin	ψ(2.5R)	1-10"			16						16		x 30
Clara Farrington	ψ(2.5R)	1-10"			123	133	140	140	54		x 590		
Youill Joaquin	ψ(3.0L)	1-14"		105	360	300	348	384	154		1651		95
Gerald F. Raub	ψ(3.6R)	1-10" 1-16"		35	43	21	72	40	8		219	135	
--GAGING STATION - WADSWORTH CANAL AT BUTTE HOUSE ROAD--	(3.6)												
--RECLAMATION BOARD DRAINAGE PLANT #3--	16.7N												
Fred S. Betty	ψψ(0.9)	1-8"		45		81	71	68	39		304	90	
Fred S. Betty	ψψ(1.0)	1-10"		39	4	36	26	29	16		150	16	
Fred S. Betty	ψψ(1.3)	1-14"	NO DIVERSION										
Fred S. Betty	ψψ(1.4)	1-16"			635	531	540	559	197		2462		130
Mrs. H. C. and C. H. Epperson	ψψ(1.49)	1-10"				116	108	62			286	y 140	
Mrs. H. C. and C. H. Epperson	ψψ(1.5)	1-20"	NO DIVERSION										
H. C. and C. H. Epperson	ψψ(1.51)	1-16"	NO DIVERSION										
T. Bihlman	ψψ(1.85)	2-14"								2	z 2	j 25	
Mrs. H. C. and C. H. Epperson	ψψ(2.65)	1-8"					77				77	45	
Elden Tarke	ψψ(3.0)	1-16"					34	83			117	100	
Edward Dean	b 16.7N	1-12"			12	86	36	72	25	53	aa 284	w 50	
Edward Dean	b 16.75N	1-16"	NO DIVERSION										
Frye, Bryant, and Frye	b 18.6N	1-20"	NO DIVERSION										
Epperson, Myers, DeWitt and Middleton	19.1N	1-12"				291	335	349	205		1180	ab 723	
T. S. Madden	19.9N	1-16"				179	137	59			375	160	
--STATE HIGHWAY 20 BRIDGE--	19.98N												
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	20.0N												
	***					Sacramento Slough							
C. Fred Holmes	1.4R	1-12"	NO DIVERSION										
SUTTER BYPASS AND SACRAMENTO SLOUGH Totals			320	4080	14390	16600	20940	20940	9030	1920	88220	13755	3706
Average cubic feet per second			5	69	234	279	341	341	152	31	182		
Monthly use in per cent of seasonal			0.4	4.6	16.3	18.8	23.7	23.7	10.3	2.2			

TABLE 215

DIVERSIONS AND ACREAGES IRRIGATED - SUTTER BYPASS AND SACRAMENTO SLOUGH (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

* Mileages on West Borrow Pit are given northerly from drain plant of Reclamation District 1500. Mile 9.15 on West Borrow Pit is opposite Chandler.
** Mileages on East Borrow Pit are given northerly or southerly from Chandler.
*** Mileages on Sacramento Slough are given easterly from drain plant of Reclamation District 1500 which is at head of Slough.
8 Plant is on the main drainage canal for Dralnage Plant #1 that joins East Borrow Pit of Sutter Bypass at Mile 1.4N. Figure in parentheses indicates distance along drain from East Borrow Pit.
88 Plant is on drainage canal for Drainage Plant #2 that joins East Borrow Pit of Sutter Bypass at Mile 10.0N. Figure in parentheses indicates distance along drain from East Borrow Pit.
ϑ Plant is on Wadsworth Canal that joins East Borrow Pit of Sutter Bypass at Mile 16.5N. Figure in parentheses indicates distance along canal from East Borrow Pit.
ϑϑ Plant is on Poodle Creek that joins East Borrow Pit of Sutter Bypass at Mile 16.7N. Figure in parentheses indicates distance along creek from East Borrow Pit.
a Water used for irrigation in Sutter Bypass is mainly Feather River return water that enters East and West Borrow Pits via Butte Creek, Butte Slough and Wadsworth Canal.
b Indicates area irrigated is within bypass.
c Of this acreage,105 was reused for duck ponds.
d Combined acreage for Miles 25.0R and 28.4R.
e The 12" unit was a temporary installation during 1957.
f Previously listed as a 12" unit.
g Combined acreage for Miles 7.1N and 88(2.5).
h The acreage listed for Mile 9.99N also received 635 acre-feet of water from Mile 10.0N.
i Additional acre-feet diverted: November 110 and December 93.
j All duck pond lands.
k Additional acre-feet diverted: November 404.
m See plant on Feather River at Mile 38.1R.
n Additional acre-feet diverted: December 83.
p Of this acreage, 15 were reused for duck ponds.
q Additional acre-feet diverted: January 161.
r Of this acreage, 20 were reused for duck ponds.
s Additional acre-feet diverted: December 8 and January 8.
t The 8" unit was a temporary installation during 1957.
u Additional acre-feet diverted: November 1224, December 1464 and January 397.
v All duck refuge lands.
w This acreage was reused for duck ponds.
x The acreage listed for Mile ϑ(2.5R) plant of Epperson, Kennedy and Joaquin received 590 acre-feet of water from Mile ϑ(2.5R) plant of Clara Farrington.
y Of this acreage,5 were reused for duck ponds.
z Additional acre-feet diverted: November 20 and December 1.
aa Additional acre-feet diverted: November 37, December 92 and January 3.
ab Includes acreage as follows: Epperson 235, Middleton 135, W. Nall 105, Madden 98, C. and L. DeWitt 55, M. G. DeWitt 48 and Meyers 47.

TABLE 216

DIVERSIONS AND ACREAGES IRRIGATED - FEATHER RIVER
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Walter Raymond	0.6R	1-20"					200	408			608	410	
Walter Raymond	1.0R	1-16"					23	126	17		166	240	
Kipp and Reith	2.2L	1-18"			76	120	87	207	88		a 578	170	
Walter Raymond	2.6R	2-20"					477	746	18		1241	1255	
John C. Johnston	3.0L	1-10"	NO DIVERSION										
Walter Raymond	4.0R	1-6"					3	17	29		49	100	
D. R. Toledo and Son	5.2L	1-12"					15	54	54	20	143	35	
White Oak Ranch	5.6L	1-14"				98	112	211	92	64	577	b 241	
A. L. Haymore	6.44L	1-10"					13	171	54	8	246	c 68	
M. Scheiber	7.7L	1-10"					64	143	75	42	324	98	
--GAGING STATION - FEATHER RIVER AT NICOLAUS--	9.2L												
Leo Muller (d)	9.25L	1-8"					30	61	47	27	165	e 70	
--NICOLAUS BRIDGE--	9.4												
T. H. Richards	9.75R	1-20"	NO DIVERSION										
--MOUTH OF BEAR RIVER--	12.0L												
Garden Highway Mutual Water Company	13.1R	2-20" 1-24"		1171	3552	3127	2654	2486	1374		14364	1832	1316
Plumas Mutual Water Company (f)	17.5L	2-20"		197	1288	1540	2007	1934	1173		8139	g 1565	116
Tudor Mutual Water Company (d)	18.4R	2-30" 1-35"		131	736	1853	1739	1688	590		6737	h 2667	
C. C. Shannon (d)	18.4R	1-18"		18	27	44	19	7	16		131	e 86	
Oswald Water District	21.4R	2-16"		304	334	706	615	527	437	32	2955	1 796	
R. J. De Gloria	21.9L	j 1-4"				10	5	2			17	23	
--GAGING STATION - FEATHER RIVER BELOW SHANGHAI BEND--	23.0R												
Earl R. Huffmaster	25.2R	1-10"	NO DIVERSION										
--MOUTH OF YUBA RIVER--	27.3L												
--GAGING STATION - FEATHER RIVER AT YUBA CITY--	28.0R												
--10TH STREET HIGHWAY BRIDGE--	28.2												
Thomas, Di Foire, Campisi, and Perrucci (k)	m 30.9R	n 1-2½"					19	32	22		73	110	
Thomas, Perone, Campisi, Perrucci, and Chandler	31.2R	1-2½"	PLANT REMOVED										
Ray Chandler	32.3R	1-10"	NO DIVERSION										
A. A. Sligar and Son	p 33.1L	q 1-3"						8	9		17	60	
Henry Everett	33.2R	1-4"	NO DIVERSION										
C. D. Prindiville	33.3R	1-10"	21	44			128	86	46		325	154	
J. L. Sullivan, Jr.	33.9R	1-10"			32		97	107	49		285	150	

TABLE 216

DIVERSIONS AND ACREAGES IRRIGATED - FEATHER RIVER (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug	Sept	Oct.		General	Rice
Sutter Extension Water District	38.1R	1-26" 2-42"		26	36	6	1278	3464	34		4844	r 4124	r 6304
La Finca Orchard	38.5L	1-5"	NO DIVERSION										
--HONCUT SLOUGH--	43.7L												
Mathews, Sullivan and Prindiville	*(0.4L)	1-18"	119	116		270	181	129			815	284	
Matsumura Brothers (s)	*(1.2L)	1-8"	11	20		50	30	13	7		131	60	
Ray Washburn	*(1.25L)	1-8"		25	18	64	65	36	40	9	257	72	
W. R. Madsen	44.0R	1-4"				13	12	12	3		40	44	
W. Earl Willey	44.5R	1-7"				10	10	12			32	27	
Herringer Enterprise	46.3L	1-20" 1-24"	71	378	300	926	1740	1312	598		t 5325	1366	
W. L. Robbins, Jr. (u)	46.4R	1-6"	NO DIVERSION										
Manuel Aguiar	47.4L	1-7"				21	6	4	8		39	v 60	
Manuel Aguiar	47.9L	1-12"			14	155	179	160	87		595	v,w 252	
Robert S. Biggs	48.0L	1-7"				99	93	57			249	x 167	
Robert S. Biggs	48.3L	1-10"				150	114	50			x 314	237	
Bowers Ranch	49.0L	1-8"		6	50	63	51	17	9		196	93	
--GRIDLEY BRIDGE - GAGING STATION - FEATHER RIVER NEAR GRIDLEY--	49.7												
Roy Mathews	49.7L	1-6"			19	24	30	32	11		116	22	
Robinson Estate	50.4L	1-14"	NO DIVERSION										
M. A. Pedrozo and Sons (y)	50.7L	1-6"		30	34	78	76	65	48	1	z 332	94	
S. T. Machado	50.7R	1-8" 1-10"	NO DIVERSION										
Frank E. Norton	51.0R	1-6"	PLANT REMOVED										
A. E. Bettencourt	51.0L	1-6"	NO DIVERSION										
Steadman Orcharda	51.4R	aa 1-5" 1-10"				21	32	31	3		87	ab 75	
Chester L. Hoar	51.6R	1-6"	PLANT REMOVED										
S. J. and J. R. Fratus	52.1L	1-8" 1-10"		150	375	312	344	259	16		1456	72	ac 30
S. J. and J. R. Fratus	52.2L	1-5"			31						ac 31		
Mart Butler	52.5L	1-7"		14	37	71	86	59	29	1	297	77	
Moe Pruitman	52.7L	1-8"		17	35	23	11	21	11		118	80	
Carl Lee Walker (d)	53.3L	1-6"					50	57	50		157	ae 87	
Hearst Magazines, Incorporated	55.1L	1-14"	NO DIVERSION										
--SUTTER BUTTE CANAL COMPANY DAM--	57.9												
Henry Haselbusch	57.9R	1-9"				31	41	20			92	48	
Butte Water District (ad)	ae 58.1R	Gravity	4679	21231	20471	20705	22691	18121	16961	8122	af 132981	12215	1345
Biggs-West Gridley Water District	ae 58.1R	Gravity	42	10748	23397	23377	24177	21723	11933	1775	117172	ag 4510	ag 6387
Richvale Irrigation District	ae 58.1R	Gravity		9257	23220	18748	18855	18083	7014	60	95237	350	9632
Sutter Extension Water District	ae 58.1R	Gravity	278	14727	31154	29248	27104	19799	10481	1666	134457	r	r
--WESTERN CANAL COMPANY DAM--	61.1												
Western Canal Company	61.2R	Gravity		4979	19666	21088	26346	23086	10171	6940	ah 112276	2535	11444
--OROVILLE - RICHVALE HIGHWAY BRIDGE--	62.6												
--OROVILLE - CHICO HIGHWAY BRIDGE--	65.0												
--GAGING STATION - FEATHER RIVER NEAR OROVILLE--	71.0												
FEATHER RIVER Totals			5220	63590	125000	123500	132300	115200	61390	18610	644800	37081	36574
Average cubic feet per second			85	1069	2033	2074	2152	1874	1032	303	1327		
Monthly use in per cent of seasonal			0.8	9.9	19.4	19.1	20.5	17.9	9.5	2.9			

TABLE 216

DIVERSIONS AND ACREAGES IRRIGATED - FEATHER RIVER (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

* Honcut Slough - Plant diverts Feather River water backed into slough. Mouth of Slough is at Mile 43.7L. Distance from Feather River and bank is shown in parentheses.
s Additional acre-feet diverted: November 2.
b Includes 65 acres which also received an undetermined amount of well water.
c Includes 13 acres which also received an undetermined amount of well water.
d New installation in 1957.
e This acreage also received an undetermined amount of well water
f Formerly listed as Farm Land and/or Plumas Mutual Water Company.
g Includes 249 acres which also received an undetermined amount of well water.
h Includes 1147 acres which also received an undetermined amount of well water.
i Includes approximately 231 acres which also received an undetermined amount of well water.
j Replaces a 6" unit.
k Formerly listed as Thomas, Perone, Campisi and Perrucci.
m Previously listed as Mile 31.2R.
n Replaces a 4" unit.
p Previously listed as Mile 33.2L.
q One 3" unit was removed in 1957.
r This is the combined acreage for plant at Mile 38.1R, Sutter Extension Water District diversion at Mile 58.1R and plants on Sutter Bypass, East Borrow Pit, at Mile 10.0N (2.0) and (6.7). This acreage also received an undetermined amount of controlled drainage water.
s Formerly listed as Jesse Frakes.
t Additional acre-feet diverted: January 93.
u Installed prior to 1957. Not previously listed.
v 20 acres listed for Mile 47.4L also received an undetermined amount of water from Mile 47.9L.
w Includes 70 acres which also received an undetermined amount of well water.
x 61 acres listed for Mile 48.0L also received an undetermined amount of water from Mile 48.3L.
y Formerly listed as M.A. Pedroza and Sons.
z Additional acre-feet diverted: November 1, December 1 and January 1.
aa The 5" unit was installed in 1957.
ab Includes 65 acres of Chambers lands.
ac 30 acres of rice listed for Mile 52.1L also received 31 acre-feet of water from Mile 52.2L.
ad Formerly listed as Sutter Butte Canal Company.
ae This is a common point of diversion for Butte Water District, Biggs-West Gridley Water District, Richvale Irrigation District, and Sutter Extension Water District.
af Additional acre-feet diverted: November 186.
ag Includes 650 acres of general crops and 130 acres of rice outside of district.
ah Additional acre-feet of duck water diverted: November 9312, December 9933, and January 815. Includes 1795 acre-feet in September and 6940 acre-feet in October for duck water.

TABLE 217

DIVERSIONS AND ACREAGES IRRIGATED - YUBA RIVER
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above "D" Street	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--HIGHWAY 99E BRIDGE ("D" STREET)--	0.0												
Richard Wilbur	0.9L	1-6" 1-10"			67	79	84		81		311	a 166	
--GAGING STATION - YUBA RIVER AT MARYSVILLE (SIMPSON LANE BRIDGE)--	0.9												
Ben Williams	1.4R	1-4"		3	4	5	6	4			22	8	
Lorin N. Trubschenck (b)	1.8R	1-6"				56	33	70	44		c 203	44	
W. B. Harrington	2.2L	1-4" 1-5"	NO DIVERSION										
River Bend Ranch	3.0L	1-14"	143	23	9	312	241	190			918	d 180	
River Bend Ranch	3.1R	1-12"	20	14		33	35	20			c 122	26	
Richard Wilbur (e)	4.1L	f 1-5" 2-14"		1	118	362	426	350	234		1491	270	
E. O. Rubke	4.3L	1-10"	PLANT REMOVED										
Di Giorgio Fruit Corporation	4.75L	1-8"		24	35	69	16	11	17	4	176	g 242	
Scott Hendricks	6.2L	1-12"	NO DIVERSION										
--DAGUERRE POINT DAM--	11.0												
Hallwood Irrigation Company	11.0R	Gravity	1732	11581	15088	16782	17483	17080	10138	4833	h 94717	4722	i 1883
Cordua Irrigation District	11.0R	Gravity		3856	10023	11501	11971	12057	8155	6275	j 63838	k 3656	m 2761
Yuba Consolidated Gold Field Company	14.5L	Gravity	NONAGRICULTURAL USE										
--HIGHWAY 20 BRIDGE--	17.1												
--ENGLEBRIGHT DAM--	22.8												
YUBA RIVER Totals			1900	15500	25340	29200	30300	29780	18670	11110	161800	9314	4644
Average cubic feet per second			31	261	412	491	493	484	314	181	333		
Monthly use in per cent of seasonal			1.2	9.6	15.7	18.0	18.7	18.4	11.5	6.9			

a Includes 15 acres which also received an undetermined amount of well water
b Formerly listed as W. B. Harrington.
c Additional acre-feet diverted: November 3 (for nonagricultural use).
d This acreage also received an undetermined amount of well water.
e Formerly listed as E. O. Rubke.
f The 5" unit was installed in 1957.
g Includes 123 acres which also received an undetermined amount of well water.
h Additional acre-feet diverted: November 2052, December 1715, and January 343.
i Of this acreage, 729 was reused for duck ponds.
j Additional acre-feet diverted: November 6908, December 6906, and January 1449.
k Includes 360 acres outside of district and 34 acres reused for duck ponds.
m Of this acreage, 1839 was reused for duck ponds.

TABLE 218

DIVERSIONS AND ACREAGES IRRIGATED - BEAR RIVER
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--MARYSVILLE - NICOLAUS COUNTY ROAD BRIDGE--	2.7												
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	3.4												
--WESTERN PACIFIC RAILROAD BRIDGE--	3.9												
--TROWBRIDGE - WHEATLAND COUNTY ROAD BRIDGE--	6.8												
Whitney Warren	7.8R	1-6"	NO DIVERSION										
W. H. Gilbert	8.1R	1-6"	11	11	21	24					67	a 50	
California Packing Corporation (b)	9.0L	1-8"				19					19	a 234	
California Packing Corporation	10.7L	1-10"		70	93	154	163	116	88		684	a 230	
--HIGHWAY 99E BRIDGE--	11.3												
--GAGING STATION - BEAR RIVER NEAR WHEATLAND--	11.3												
--SOUTHERN PACIFIC RAILROAD BRIDGE--	11.35												
BEAR RIVER													
Totals			10	80	110	200	160	120	90	0	770	514	0
Average cubic feet per second			0	1	2	3	3	2	1	0	2		
Monthly use in per cent of seasonal			1.4	10.5	14.8	25.6	21.2	15.1	11.4	0			

a This acreage also received an undetermined amount of well water.

b Reinstallation in 1957 of a plant previously removed.

TABLE 219

DIVERSIONS AND ACREAGES IRRIGATED - AMERICAN RIVER
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GARDEN HIGHWAY BRIDGE--	0.2												
--HIGHWAY 40 AND 99E BRIDGE (16TH STREET)--	1.9												
--WESTERN PACIFIC RAILROAD BRIDGE--	2.1												
Joe Gomez	2.4L	1-5"				8	11	3	5		27	9	
North Sacramento Lands Company	2.65R	1-8"	NO DIVERSION										
North Sacramento Lands Company	2.75R	1-5"				8	11	9			28	32	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	3.0												
--ELVAS FREEWAY BRIDGE--	3.2												
--GAGING STATION - AMERICAN RIVER AT SACRAMENTO (H STREET)--	6.0												
E. Clemens Horst Company	6.5R	1-6"			47	59	61	5	17		189	a,b 393	
E. Clemens Horst Company	7.5R	1-8"			28	68	59		26	7	188	a	
J. I. Haas, Incorporated	7.7R	1-4"				38	29	11	3	5	86	80	
Del Paso Rock Products Company	8.9R	1-1½"	NONAGRICULTURAL USE										
Walter J. Wissemann	9.0L	1-6"				30	45	6			81	37	
G. L. Browning	9.05R	1-5"					30	31	3		64	12	
J. G. and F. F. Dauenhauer	9.2L	1-4"				17	23	12	11		63	60	
Ruth Coleman	9.4L	1-5"						34	8		42	b 140	
Del Paso Rock Products Company	10.2R	1-8"			12	24	37	12	28		113	45	
Gold Nugget Orchard Company	10.4R	1-5"			6	26	11	14	1		58	17	
Mucke Sand and Gravel Company	11.2L	1-4"		2	1	6	10	12	7	1	39	24	
J. T. Gore	11.5L	1-4"				22	26	16	27		91	50	
Riverview Enterprises (c)	11.7L	1-4"				6	17	16			39	25	
Carmichael Irrigation District	13.9R	1-14"		37	47	380	439	390	95	1	1389	b,d 3865	
J. R. Deterding	15.8R	1-4"				6	12	16			34	55	
Carmichael Irrigation District	16.0R	1-6" 3-12"	4	328	395	926	1004	838	590	155	e 4279	b,d	
--GAGING STATION - AMERICAN RIVER AT FAIR OAKS--	19.2												

TABLE 219

DIVERSIONS AND ACREAGES IRRIGATED - AMERICAN RIVER (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
AMERICAN RIVER													
Totals			40	370	540	1620	1830	1420	820	170	6810	4844	
Average cubic feet per second			1	6	9	27	30	23	14	3	14		
Monthly use in per cent of seasonal			0.6	5.4	7.9	23.8	26.8	20.9	12.1	2.5			

a Combined acreage for Mile 6.5R and 7.5R.
b This acreage also received an undetermined amount of well water.
c Formerly listed as William A. Meyer.
d Combined acreage for Mile 13.9R and 16.0R. District is suburban land and no segregation of irrigated acreage is available.
e Additional acre-feet diverted: November 58, December 33, January 61 and February 47.

TABLE 220

DIVERSIONS AND ACREAGES IRRIGATED - COSUMNES RIVER *
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
--WESTERN PACIFIC RAILROAD BRIDGE--	0.4												
R. L. Deller	0.8R	1-12"			26	36	38	34	22	12	168	45	
R. L. Deller	1.7R	1-10"					32	63			95	45	
Kenworthy and Patterson	2.0L	1-30"				102	373	256	12	3	746	390	
Desmond Ranch	2.8R	1-6"				NO DIVERSION							
A. H. Watson	2.8L	1-8"					10	1			11	a,b 194	
Desmond Ranch	3.1R	1-10"				NO DIVERSION							
--STATE HIGHWAY 104 BRIDGE--	5.3												
Fred G. Cary	6.0L	1-3"				NO DIVERSION							
L. G. Kilkeary and H. Trevor	9.8R	1-16"									c	a 815	
Jack Lewis	10.5R	1-6"	16	43	36	23	3			13	d 134	e 95	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	10.6												
--U.S. 50 AND 99 HIGHWAY BRIDGE--	10.7												
--GAGING STATION - COSUMNES RIVER AT McCONNELL--	10.7												
J. C. Carli	14.3R	1-10"				27	35				62	40	
J. C. Carli	14.4R	1-10"				NO DIVERSION							
M. F. Larkin	14.6L	1-5"					12				12	45	
--FREEMAN ROAD BRIDGE--	14.9												
Ralph Nix	15.2L	1-8"				11	15				26	20	
J. I. Nix	15.8L	1-6"				2	9	4			15	10	
Ralph Nix	15.9L	1-6"				NO DIVERSION							
--WILTON ROAD BRIDGE--	16.8												
--CENTRAL CALIFORNIA TRACTION COMPANY RAILROAD BRIDGE--	16.8												
George D. Beitzel	18.2R	1-12"				75	52	14			141	a 173	
Bradley Ranch	18.9R	1-6"				NO DIVERSION							
Bright Estate	20.1R	1-10"	2	7	6	97	481	127			720	a 300	
F. Barbero	21.6L	1-6"				7	6				13	a 30	
J. F. Patterson	21.9R	1-6"				NO DIVERSION							
Rooney Brothers	23.7R	1-12"				64	106				170	a 107	
Cothrin and Grimshaw	24.4R	1-8"				51	59	12			122	81	
Francis Rooney (f)	24.5R	1-12"					73				73	a 65	
--DILLARD ROAD BRIDGE--	24.8												
--RECORDING GAGE - COSUMNES RIVER NEAR SLOUGHHOUSE--	24.85												
P. Westerberg	25.5R	1-10"				104	116	54			274	a 125	
A. V. Signorotti	25.7R	1-3"				2	2				4	3	
F. M. Grimshaw	25.9R	1-8"				1	41	71			113	24	
A. V. Signorotti	26.3R	1-5"				5	14	3			22	14	
F. M. Grimshaw	26.4R	1-6"					20				20	9	
G. C. Johnson	26.5L	1-6"				8	13	4			25	g	
G. C. Johnson	27.3L	1-5"				106	142	102	17		367	a,g 200	

TABLE 220

DIVERSIONS AND ACREAGES IRRIGATED - COSUMNES RIVER *(contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet								Total Diversion Mar. Oct. Acre Feet	Acreage Irrigated	
			Mar	Apr	May	June	July	Aug	Sept	Oct		General	Rice
R. Sartain	27.6R	h 1-6"					47	41	31		119	24	
F. Silva, Jr.	27.8L	1-6" 1-8"				72	206	163	38		501	a 155	
R. Sartain	28.6R	h 1-8"					123	123	118		364	51	
Schneider Ranch	30.0L	1-8"		97	43	71	125	128	90	60	612	105	
--STATE HIGHWAY 16 BRIDGE--	31.3												
A. Granlees	32.6R	1-4"				38	49	43	29	22	181	70	
--GRANLEES DAM--	33.0												
Cosumnes River Water District	33.0R	Gravity	2	183	40	933	1297	816	497	198	1 3966	777	
--GAGING STATION - COSUMNES RIVER AT MICHIGAN BAR--	34.3												
COSUMNES RIVER													
Totals			20	330	170	1840	3500	2060	850	310	9080	4612	0
Average cubic feet per second			0	6	3	31	57	33	14	5	19		
Monthly use in per cent of seasonal			0.2	3.6	1.9	20.2	38.6	22.7	9.4	4.4			

* Diversions shown in this table below the McConnell gaging station are considered as Delta Uplands diversions. Tidal effect ceases at about Mile 3.5.
a This acreage also received an undetermined amount of well water.
b Includes approximately 7 acres of duck clubs.
c Acre-feet diverted: November 187, December 91, and January 45.
d Additional acre-feet diverted: November 29 and December 8.
e This acreage also received an undetermined amount of controlled drainage water and well water.
f New installation in 1957
g Combined acreage for Miles 26.5L and 27.3L.
h Replaces a 5" unit.
i This figure is the diversion entering the District under State Highway 16 and includes an undeterminted amount of spill to the Cosumnes River at Mile 29.9R but does not include the spill above Highway 16.

TABLE 221

DIVERSIONS AND ACREAGES IRRIGATED - MOKELUMNE RIVER *
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar. Oct. Acre-Feet	Acreage Irrigated	
			Mar	Apr.	May	June	July	Aug.	Sept	Oct		General	Rice
Egbert O. Morse	4.7R	1-12"				20	115	58			193	145	
--FRANKLIN - THORNTON HIGHWAY BRIDGE--	4.9												
--COSUMNES RIVER--	5.0R												
--WESTERN PACIFIC RAILROAD BRIDGE--	5.4												
Manuel Lopes	6.6R	1-12"	1	3	22	82	143	92	46	12	a 401	250	
Thornton Farms	6.9R	1-8"				48	14				62	13	
--GALT - THORNTON HIGHWAY BRIDGE--	7.0												
Thornton Farms	7.6R	2-12"				616	719	419	50		1804	b 905	
Thornton Farms	8.1R	1-12"				17	30	8			55	60	
Albin G. Steffan	8.7R	1-12"		98	154	167	169	158	116	33	895	100	
S. and J. Frandy	10.4L	1-12"		3	5	17	13	19	13		70	53	
Albin G. Steffan	10.6R	1-16"		306	618	677	681	597	465	91	3435	479	
A. Taddei	14.2R	1-6"	NO DIVERSION										
C. Blattler (c)	15.5R	d 1-4"	1	2	4	6	7	7	6		33	12	
A. Taddei	15.6R	1-6"					18	25			e 43	75	
R. J. Linde	16.8R	1-6"			21	19	59	8			107	114	
--GAGING STATION - MOKELUMNE RIVER AT WOODBRIDGE--	19.2												
--SACRAMENTO ROAD BRIDGE--	19.8												
--WOODBRIDGE IRRIGATION DISTRICT DAM--	19.9												
Woodbridge Irrigation District	19.9L	Gravity	1560	11290	12720	18220	21290	20520	13850	19300	f 118750	g,h15696	g 63
LeMoin Beckman	21.1L	1-5"					7	3			10	12	
Arthur J. Hoffman (i)	21.85R	1-6"				24	14	38	10		86	35	
Sidney Halsey	22.5R	1-5"					16	14	7		37	16	
Howard Mason (j)	22.7L		NO DIVERSION										
L. R. Sanguinetti	23.4L	1-6"				3	2	2	1		8	5	
Nora E. Mumbert	23.4R	1-4"				6	29	3	1		39	15	
M. M. Bender	23.5R	1-4"	DOMESTIC USE ONLY										

TABLE 221

DIVERSIONS AND ACREAGES IRRIGATED - MOKELUMNE RIVER *(contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6												
Ben Bechthold	24.0L	1-4"		14		6	4	5	2		31	15	
--HIGHWAY 99 BRIDGE--	24.2												
Litts, Mullen and Perovich	24.45L	1-5"		1		9	16	2			28	7	
Lawrence Ranch	24.5L	1-6" 1-10"		9	28	58	143	76	22	2	338	114	
S. and M. Miller	24.8L	1-6"			1		2	2	2		7	12	
Kirschermann and Mettler	25.2R	1-10"		44	47	6	3	2			102	67	
M. and N. Palmer	25.5L	1-4"			1	4	10	7	1		23	23	
--CENTRAL CALIFORNIA TRACTION COMPANY BRIDGE--	25.6												
Robert N. Lind	26.3L	1-5"			1	14	6	3			24	19	
Richard Wagers	26.35L	1-4"		1	1	2	3	3	2		k 12	5	
Vasco Mencarini	26.9R	1-5"					12	45	18		75	68	
Nakagawa Brothers (m)	27.2R	1-8"	1	2		7	12	10	4		36	19	
Irene Green	27.5L	1-5"		62	48		9	8			127	37	
R. J. Linde	27.6L	1-8"		21		8	10	1			40	20	
A. E. Joens	27.9L	1-10"	42	154				2	15		n 213	103	
Frankie G. Dick	28.5L	1-4"						5			5	10	
Nakagawa Brothers (p)	28.6R	1-6"			8	25	65	62	17	5	182	118	
L. J. Peterson	28.9L	1-4"	NO DIVERSION										
W. E. Mehlhaff	29.9R	1-8"	2	3	80	2	9	4			q 100	68	
E. Bender	30.0L	1-10"		16	11	4	10	11	16		68	30	
--BRUELLA ROAD BRIDGE--	30.0												
V. W. Hoffman and Sons	30.15R	r 1-8"		21	12	72	82	35	9		231	71	
N. H. Davis	30.35R	1-6"		6	3	12	28	13			62	50	
J. J. Schmiedt	30.95L	1-7"					32	33	16		81	57	
Leon Kirschenmann and Leonard Preszler, et al.	31.0L	1-8"		99	90	94	30	18	6	1	338	155	
Rosa D. Soucie	31.7L	1-5"	NO DIVERSION										
John Graffigna	31.8R	1-7"		6	2		16	6	6	1	37	14	
Jones Ranch	32.0L	1-6"	NO DIVERSION										
L. J. Peterson	32.5L	1-5"		2	4	11	12	17	9	1	56	15	
Red Checker Land Company	32.75R	1-5"		1	15	33	36	19			104	s 108	
C. M. Locke	33.25L	1-10"	12	25	7	41	88	79	39		291	t 131	
Acampo Vineyards	33.45R	1-8"						15	7		22	20	
Acampo Vineyards	33.6R	1-8"	4	10	30	49	54	38	7		192	110	
Niel C. Locke	33.7L	1-12"	11	96	79	234	197	274	95		986	u 342	
R. T. McCarty	33.75L	1-10"				27	28	59	31		145	90	
T. and E. Schmierer	33.8R	1-4"		8	5	11	11	12	7		54	15	
Pritam Singh Dhaliwal	34.05R	1-4"	1	10	4	3	6	2			26	14	
Norman Knoll (v)	34.1R	1-4"		34	37	11	17	17	11	1	128	w 53	
Norman Knoll (x)	34.3R	1-4"			20	7	7	9			43	19	
--COUNTY ROAD BRIDGE--	34.35												
J. B. Ward	34.5R	1-4"				1	5	1	1		8	16	
Kenneth H. Beckman	34.6R	1-5"				3	8	8	3		22	15	
H. C. Russell	34.55L	1-10"		51	57	116	131	105	80	21	561	73	
H. C. Russell	34.75L	1-12"					82	53	25		160	138	
E. R. Thomas	35.15R	1-6"		44	24	79	92	40	40	9	328	s 195	
E. M. Locke	35.2L	1-8"		14	29	45	64	58	44		y 254	78	
William Weber	35.4L	1-8"			3	27	43	64	19		156	130	
Boyce Van Patten	35.5R	1-8"				135	128	113			376	160	
C. L. Allen	35.7L	z 1-6"		5	4	24	15	39	24	2	113	66	
John S. Coates	35.9L	1-7"				21	17	39	9		86	65	
W. S. Montgomery	36.0L	1-6"		25	18	50	58	37	32		aa 220	159	
O. Parker	36.45L	1-12"			19	138	84	64	23	60	388	136	
W. L. Moffat	36.8R	1-8"				36	22	29	20	1	108	53	
J. R. Wiederrich	37.15L	1-10"				66	25				91	41	
W. L. Moffat	37.45R	1-8"				33	41	32	14		120	80	

TABLE 221

DIVERSIONS AND ACREAGES IRRIGATED - MOKELUMNE RIVER *(contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre Feet								Total Diversion Mar.-Oct. Acre Feet	Acreage Irrigated	
			Mar	Apr	May	June	July	Aug	Sept	Oct		General	Rice
W. L. Moffat	37.65L	1-10"				11	14	6			31	93	
Costa Estate	37.7R	1-12"				17	28	15	8		68	30	
C. and F. Sanguinetti	38.0L	2-6"				71	25	53	27		176	68	
C. and F. Sanguinetti	38.1L	1-8"				51	32	41	11		135	62	
Rudolph Sutter (ab)	38.3L	1-10"				9	65	37	39		150	80	
Gertrude W. Chrisman	38.5L	1-12"			4	38	35	52	12		141	80	
Clements Estate	39.0L	1-12"		105	317	459	471	465	360	87	2264	313	
McGee Ranch	39.25L	1-5"				6	7	9	6		28	15	
--HIGHWAY 88 BRIDGE--	39.3												
--CAGINO STATION - MOKELUMNE RIVER NEAR CLEMENTS--	39.35												
MOKELUMNE RIVER Totals			1640	12590	14550	22110	25780	24220	15700	19630	136200	22130	63
Average cubic feet per second			27	212	237	372	419	394	264	319	280		
Monthly use in per cent of seasonal			1.2	9.3	10.7	16.2	18.9	17.8	11.5	14.4			

* Diversions shown in this table below the Woodbridge gaging station are considered as Delta Uplands diversions. Left bank diversions into Reclamation District 348 (below Mile 9.8) and right bank diversions into McCormack-Williamson Tract (below Mile 3.5) are not included since these areas are considered to be within the Delta Lowlands. Tidal effect ceases at about Mile 10.5.
** Mile and bank above New Hope Bridge.
a Additional acre-feet diverted: December 3.
b This acreage also received an undetermined amount of water from Dry Creek.
c Formerly listed as H. C. Braly.
d Replaces a 3" unit.
e Additional acre-feet diverted: January 23 and February 12.
f Additional acre-feet diverted: November 980.
g Includes 5116 acres outside the district.
h This acreage also received an undetermined amount of water from Beaver Slough.
i Formerly listed as Lewis D. Bridge.
j Formerly listed as J. B. Ballantine.
k Additional acre-feet diverted: January 1.
m New installation in 1957.
n Additional acre-feet diverted: January 84 and February 68.
p Formerly listed as P. T. Nakagawa, et al.
q Additional acre-feet diverted: December 5.
r A 5" unit was removed in 1957.
s This acreage also received an undetermined amount of well water.
t Of this acreage, 88 was double cropped.
u Of this acreage, 175 was double cropped.
y Formerly listed as August Knoll.
w Includes 25 acres Graffigna lands.
x Formerly listed as N. D. and D. D. Knoll
y Additional acre-feet diverted: November 2 and December 1.
z Replaces a 10" unit.
aa Additional acre-feet diverted: November 1.
ab Formerly listed as P. L. and V. A. Stabel.

TABLE 222

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER*
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
Inman Realty Company	1.8L	1-12"		3	4	4	7	8	7	1	a 34	4	
Inman Realty Company	1.9L	1-6"									b		
E. A. and E. R. Anderson	2.2L	1-4"			1	3	3	[illegible]	[illegible]		11	5	
Weiershauser, Thiorzo and Piccardo	2.5R	1-12"			6	34	35	37	16		128	36	
John Santa Maria	2.9L	1-4"			1	3	5	3	3		15	12	
Ralph Panello	2.9R	1-12"				NO DIVERSION							
--PACIFIC AVENUE BRIDGE--	3.7												
Charles M. Weber	4.4R	2-6"		2	4	36	75	44	7		168	[illegible]	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	5.3												
--STOCKTON DIVERTING CANAL--	5.4L												
Roy Moresco	5.7L	1-14"	11			40	34	53			138	c 40	
Claude Moresco	6.0L	1-5"				4		4			8	c 30	
A. Toso	6.2L	1-4"		[illegible]	1	21	14	[illegible]	1		d 65	c 16	
--U. S. 50 AND 99 HIGHWAY BRIDGE--	6.8												
--CENTRAL CALIFORNIA TRACTION COMPANY RAILROAD BRIDGE--	7.9												
--GAGING STATION - CALAVERAS RIVER NEAR STOCKTON--	7.9												
A. V. Lagorio	8.5L	1-6"				15	8	8			31	[illegible]	
--SOLARI ROAD BRIDGE--	8.8												
E. Leonardini	9.1R	1-4"				13	18	17			48	[illegible]	
Uyeda Brothers	9.9L	1-6"			1	30	[illegible]	35			1 1	64	
Rugani Brothers	9.9R	1-6"				38	42	36			116	[illegible]	
N. and R. Sanguinetti	10.2R	1-8"				33	12	43			e 88	[illegible]	

TABLE 222

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--ALPINE ROAD BRIDGE--	10.6												
John B. Garibaldi	11.0L	1-5"				28	22	19			69	c 45	
John Arata	11.2L	1-5"				9	4	8			21	c 11	
Irene Saccone	11.4L	1-4"				33	16	13			62	c 40	
Frank Solari	11.4R	1-6"	8			64	38	37			147	c 83	
--PEZZI DAM--	11.8												
Julia Pezzi and Sons	11.8R	Gravity				18	63	13			94	c 63	
Julia Pezzi and Sons	11.82L	Gravity				45	58				103	c,f 30	
Julia Pezzi and Sons	11.85L	Gravity				40	48	14			102	f	
A. Navone	11.85R	Gravity				9	3	4			16	c 3	
Julia Pezzi and Sons	11.95L	Gravity				39	48	24			111	c,g 30	
A. Navone	11.95R	Gravity				1	3	2			6	c 5	
Julia Pezzi and Sons	12.0L	Gravity				46	47	22			115	g	
Julia Pezzi and Sons	12.05L	Gravity				23	31	18			72	g	
Julia Pezzi and Sons	12.1L	Gravity				17	25	13			55	c,h 22	
Julia Pezzi and Sons	12.15L	Gravity				21	29	18			68	h	
--MURPHY DAM--	12.3												
S. Sciutti	12.3L	Gravity				14	12	7			33	c 20	
L. Freggiaro and Son	12.3R	Gravity				10	4	6			20	c 20	
Tony Pastore	12.35L	Gravity				1	1	2			4	c,i 20	
G. Freggiaro and Son	12.39R	Gravity				4	3	2			9	j	
G. Freggiaro and Son	12.41R	Gravity				6		1			7	c,j 20	
C. Bava and Son	12.42R	Gravity				118	130	117			365	c,k 118	
Vic Freggiaro	12.43R	Gravity					1				1	m	
Vic Freggiaro	12.45R	Gravity						1			1	m	
Vic Freggiaro	12.5R	Gravity				20		9			29	c,m 17	
Tony Pastore	12.5L	Gravity					1	1			2	i	
Tony Pastore	12.6L	Gravity				2	5	4			11	i	
Vic Freggiaro	12.6R	Gravity				15	8				23	c 9	
--STATE HIGHWAY 88 BRIDGE--	12.7												
Tony Pastore	12.8L	Gravity				NO DIVERSION							
Percy Pope	12.9R	Gravity				9		5			14	c 32	
Ed O. Brandstad	13.6R	1-6"				11	9	13			33	c 25	
Fred Podesta (n)	13.9L	p 1-14"				169	93	70			332	c 100	
N. Tassano	14.0R	1-8"				17	18	19			54	c 30	
Henry Foppiano	14.1L	1-5"				20	28	5			53	c 72	
J. Schiaffini	14.4R	1-4"				13	18	14			45	c 20	
Angelo Grattone (q)	14.5R	1-12"				190	144	56			390	c 181	
L. and R. DeVincenzi	14.8R	1-6"				103	67	14			184	c 115	
Dave V. Sanguinetti	15.1L	1-5"				27	28	35			90	c 55	
A. Girardi	15.4R	1-12"				76	77	45			198	c,r 213	
J. H. Tone	15.7L	1-10"				29	42	37			108	c 91	
--JACK TONE ROAD BRIDGE--	15.8												
John Plotz	16.0R	1-5"				23	30	20			73	c 38	
L. A. Cademartori	16.2L	1-5"				55	33	44			132	c 62	
Joe Phillips	16.5L	1-6"				NO DIVERSION							
C. Paoletti	16.6L	1-5"				16	21	7			44	c 33	
E. G. Guthrey (s)	16.65R	1-5"				4	5	5			14	c 19	
Reno Paoletti	16.7L	1-4"				11	9	9			29	c 18	
Lawrence Zolezzi	16.8L	1-6"				42	46	28			116	c 51	
Mario and John Boggiano (t)	17.3L	1-10"					57	19			76	c 75	
George Hansen (u)	17.6R	1-8"					16	16			32	c 48	
--TULLY ROAD BRIDGE--	17.8												
Steve Solari	18.4L	1-8"	18			109	143	114			384	c 281	
Rugani Brothers (u)	18.5L	1-8"				27	16	34			77	c 67	
Joe Landoni	19.3R	1-5"				29	26	16			71	c 38	
E. F. Messick	19.8R	1-5"				4	3	3			10	3	
B. E. Stagnaro	19.8L	1-8"				40	44	47			131	c 52	

TABLE

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (contd.)
November 1956 through October 1957
(Nov. 1950 through Feb. 1957 - see footnote.)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet								Total Diversion Mar.-Oct. Acre Feet	Acreage Irrigated	
			Mar	Apr	May	June	July	Aug	Sept	Oct		General	Rice
A. Delucchi	19.9L	1-4"				[illegible]	[illegible]	6			[illegible]	[illegible]	
L. Vaccarezza	20.1L	1-5"				14	[illegible]	[illegible]			[illegible]	[illegible]	
E. Brennan (w)	20.3L	1-10"				32	30	34			106	[illegible]	
G. Pacini	20.4L	1-[illegible]"				[illegible]	[illegible]	5			11	[illegible]	
Edward Ginnecchini (x)	20.6L	1-5"				[illegible]	12				19	[illegible]	
H. S. and A. R. Guernsey (y)	20.9R	1-8"				[illegible]	64	[illegible]			192	[illegible] 84	
F. and M. Arboco	21.0L	1-4"				[illegible]	[illegible]	19			78	[illegible]	
Frank Giannecchini	21.0lL	1-5"				[illegible]	[illegible]	14			111	[illegible] 39	
--CLEMENTS ROAD BRIDGE AND OAM--	21.1												
E. W. Marciano and D. Canepa	21.1L	Gravity				101	99	80			[illegible]	[illegible] 190	
Albert Metzler	21.11L	Gravity				33	32	33			98	ab 40	
Mailand Ferrill	21.3L	1-4"				14	10	15			48	c 25	
O. Giordano	21.4L	1-4"						1			1	[illegible] 8	
Domonick Figone	21.5L	1-5"				13		20			ab [illegible]	[illegible] 30	
--NORTH SLOUGH--	21.6R												
--NORTH SLOUGH CONTROL GATES**--	**(0.0)												
F. Harrison	**(1.3L)	1-4"				2	4	7			13	c 13	
L. Robinson	**(1.3R)	1-3"				3	1				4	10	
S. Filippone	**(1.8L)	1-4"				21	24	21			66	[illegible] 42	
Webster Ranch	**(1.81L)	1-12"				80	122	155			357	c,ac 205	
Webster Ranch	**(2.4L)	Gravity				NO DIVERSION							
Webster Ranch (u)	**(2.6R)	1-12"					25	64	37		[illegible] 126	[illegible] 92	
W. G. Fisher	**(4.1L)	1-9"			68	87	68	16			239	[illegible] 60	
--TULLY ROAD BRIDGE--	**(4.2)												
J. H. Tone	**(6.0R)	1-10"				70	55	59	33		217	[illegible] 157	
A. Girardi	**(6.1L)	1-16"				65	49	72			186	r	
Lyons Brothers	**(6.6R)	1-10"				70	52	79	11	5	217	[illegible] 107	
Lucky Ranch	**(7.3L)	1-6"			6	42	28	28	6		110	[illegible] 100	
A. G. Steltzner	**(7.3R)	1-8"				NO DIVERSION							
J. W. Hannah, Jr.	**(7.8L)	1-6" 1-8"				NO DIVERSION							
--STATE HIGHWAY 88 BRIDGE--	**(8.1)												
A. G. Steltzner	**(8.1R)	1- "				NO DIVERSION							
W. C. Leffler	**(10.3L)	1-4"				28	19	31			78	c 30	
W. C. Leffler	**(11.5L)	1-10"				108	157	115			380	c 120	
Webster Ranch	21.7R	1-8"				11		135			146	c 72	
P. C. D. Ranch	21.9R	1-8"				50	37	53			140	c 80	
Andrew Cuneo	22.0L	1-12"			9	154	105	123			391	[illegible] 160	
Nick Genetti	22.1L	1-4"				20	14	13			47	c 15	
Joe DeMartini	22.2R	1-8"		5		46	37	41			129	c 78	
Carroll and Anderson	22.3L	1-8"				95	65	70			230	[illegible] 92	
John Boggiano	22.4R	1-10"				56	48	50			154	c 70	
Caeser DeMartini	22.7R	1-12"	6	7		72	72	54			211	c 142	
Louis Tassano	22.9L	1-8"				26	32	31			89	[illegible] 75	
Frank DeBenedetti	23.1L	1-7"				42	42	38			122	c 38	
Fred Podesta	24.3L	1-12"				17	17	16			50	ad	
Fred Podesta	24.4L	1-12"		26		192	256	232			706	c,ad 480	
--STATE HIGHWAY 8 BRIDGE--	25.2												
--GAGING STATION - CALAVERAS RIVER AT BELLOTA--	25.25												
--CALAVERAS RIVER - MORMON SLOUGH CONTROL GATES--	25.28												
John Armanino and Sons	25.3R	1-10"				59	106	45			210	c 115	
D. Creary	25.3L	1-2½"				1	1				2	2	
Stockton and East San Joaquin Irrigation District (ae)	25.3L	Gravity		1	3	2	2				8		
--MORMON SLOUGH--	25.3L												
--GAGING STATION - MORMON SLOUGH AT BELLOTA--	8(0.05)												

TABLE 222

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--FARMINGTON - BELLOTA COUNTY ROAD BRIDGE--	8(0.2)												
J. G. Watkins	8(0.3R)	1-8"			22	16	31	30			99	c 60	
Angelo Solari	8(0.5L)	1-8"			20	28	38	57			143	c 64	
Fred Casella	8(0.9L)	1-6"			20	21	36	25	4		106	c 80	
John, Louis and Mario Boggiano	8(1.4R)	1-12"	17			88	118	91			314	c 302	
Sam Motoike	8(1.5L)	1-8"				17	23	18			58	c 41	
Raymond Motoike	8(1.7L)	1-6"				19	13	15			47	c 35	
E. Marugliano	8(2.0R)	1-7"				23	31	19			73	c 42	
C. and F. Sanguinetti	8(2.0L)	1-8"				45	54	57			156	85	
J. B. Ryburn	8(2.5L)	1-10"		6	25	63	102	90			af 286	c 126	
--FINE ROAD BRIDGE--	8(2.7)												
Julia Pezzi and Sons	8(3.3L)	1-8"				28	54	58			140	33	
Caeser DeMartini	8(3.4R)	1-10"			13	18	37	25			93	c 48	
John Avansino	8(3.5L)	1-5"				NO DIVERSION							
Louis J. Lagorio	8(3.6R)	1-6"				34	45	30			109	c 172	
Ray Lagorio	8(3.7R)	1-8"				8	16	36			60	c 40	
P. W. Leonardini	8(4.1L)	1-7"				30	50	36			116	c 100	
Bertha E. Case	8(4.4L)	1-8"				6	24	18			48	c 54	
Nick Bonomo	8(5.5L)	1-10"				46	50	35			131	c 73	
John A. Lagorio	8(5.8L)	1-7"				17	37	6			60	c 40	
Motoike Brothers (ag)	8(6.1L)	1-6"				17	29	39			85	c 80	
S. Piazza	8(6.2R)	1-6"			10	23	27	25			85	c 33	
John Ratto	8(6.7R)	1-5"				NO DIVERSION							
Dondero Brothers	8(6.9R)	1-8"				25	14	17			56	c 35	
A. and R. Lagorio and A. and J. Caffese (ah)	8(6.9L)	1-8"				66	49	48			163	c 108	
Prado Brothers	8(7.2R)	1-6"				32	16	16			64	c 39	
A. and R. Lagorio	8(7.2L)	1-8"				41	31	28			100	c 96	
Mapes Brothers	8(7.5R)	1-6"				45	31	63			ai 139	c 70	
D. Paoletti and Son	8(7.8R)	1-6"				25	25	14			64	c 40	
--COPPEROPOLIS ROAD BRIDGE--	8(7.8)												
Smythe, Van Dyke Company	8(8.4L)	1-16"				104	190	119			413	aj 257	
A. Mignacco	8(10.0L)	1-8"				37	32	28			97	c,ak 53	
E. M. Walker	8(10.0R)	1-5"				NO DIVERSION							
M. Lavaggi	8(10.3L)	1-8"				59	43	50			152	c,am 71	
Ray Duarte	8(10.8R)	1-7"			1	24	65	33			123	c 110	
Ray Duarte	8(11.0L)	an 1-6"				16	59				75	c 70	
G. B. Ghiorzo (ap)	8(11.7R)	1-5"				25	11	36			72	c 62	
Frank C. Raffel	8(11.9L)	1-6"				54	75	39	1		169	c 111	
L. Gogna	8(12.4R)	1-5"				11	10	6			27	c 21	
A. Solari and Sons	8(12.5L)	1-4"			2	11	25	24			62	c 35	
Joseph Caffese and Sons	8(12.8R)	1-7"				17	33	28			78	c 26	
--END OF MORMON SLOUGH - BEGINNING OF STOCKTON DIVERTING CANAL--	8(13.0)												
Homer D. Riddle	88(13.3R)	1-6"				NO DIVERSION							
Homer D. Riddle	88(13.7R)	1-6"				NO DIVERSION							
--STATE HIGHWAY 8 BRIDGE--	88(14.9)												
Budiselich and Boggiano Brothers	88(15.7R)	2-12"				133	142	116			391	c 122	
--U.S. 50 AND 99 HIGHWAY (FREEWAY) BRIDGE--	88(16.0)												
--GAGING STATION - STOCKTON DIVERTING CANAL AT STOCKTON--	88(16.2)												
Roy Moresco	88(16.2R)	1-5"				NO DIVERSION							
--U.S. 50 AND 99 HIGHWAY BRIDGE--	88(17.2)												
Albert A. Anderson	25.5L	1-12"				59	40	57			aq 156	115	
L. F. Grimsley	25.9L	1-16"				79	115	98			292	220	
Vignolo and Pallavincino	26.3R	1-10"		14	30	86	74	86	9		299	110	
Field Brothers	26.8L	1-6"		3	22	19	47	18			109	c 107	
McGurk Ranch	26.8R	1-8"			37	24	74	65			200	c 140	

TABLE 222

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre Feet	Acreage Irrigated	
			Mar.	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
Saverio Nogare	27.2R	1-12"				NO DIVERSION							
Saverio Nogare	27.5L	1-10"				35	22	17			74	c 110	
E. E. Cady	28.3L	1-6"				11	26	20	10		67	ar 37	
Ray Lagorio (u)	28.5L	1-8"				18	7	18			43	40	
R. T. and A. V. Lagorio	28.9L	1-10"				21	18	20			59	50	
Garavano and Maffeo	29.0L	1-6"				10	49	29			88	50	
O. R. Shelley	29.2R	1-6"		2		9	13	19	5		48	as	
O. R. Shelley	29.3L	1-10"				57	51	47			155	c,as 153	
M. N. Yocum	29.4L	1-8"				52	91	43			186	105	
Kenneth G. Watkins	30.1R	1-10"	14	7		105	116	83	2		327	100	
--BELLOTA RIVER ROAD BRIDGE--	30.4												
L. and D. Noag	30.6R	1-14"			14	77	86	90	41		308	160	
Lynn Barnett	30.7R	1-7"			11	1	13	11			36	26	
Lois E. Hunt	31.1R	1-6"				35		24			59	37	
S. M. Gregory	31.3R	1-8"	1		28	61	50	41	50		231	at 130	
S. M. Gregory	31.6R	1-6"				5	7	5	2		19	35	
Eva Hunt	32.5R	1-5"		3	5	11	15	10	9	1	au 54	15	
Eva Hunt	32.6L	1-6"					55	16	10		81	55	
--GAGING STATION - CALAVERAS RIVER AT JENNY LIND--	36.9												
CALAVERAS RIVER													
Totals			80	80	360	5710	6310	5400	270	10	18220	10328	0
Average cubic feet per second			1	1	6	96	103	88	4	0	38		
Monthly use in per cent of seasonal			0.4	0.4	2.0	31.3	34.6	29.7	1.5	0.1			

* Diversions shown in this table below the Stockton gaging station are considered as Delta Uplands diversions. Right bank diversions below Mile 2.0 and left bank below Mile 0.7 are not included since they serve areas that are considered to be within the Delta Lowlands. Tidal effect ceases at about Mile 5.0.
** North Slough - North Slough diverts from Calaveras River at Mile 21.6R. Distance from Calaveras River and bank is shown in parentheses.
δ Mormon Slough - Mormon Slough diverts from Calaveras River at Mile 25.3L, and rejoins the river through Stockton Diverting Canal. Distance from Calaveras River and bank is shown in parentheses.
δδ Stockton Diverting Canal - Stockton Diverting Canal diverts from Mormon Slough at Mile δ(13.0) and rejoins the Calaveras River at Mile 5.4L. Distance from Calaveras River and bank is shown in parentheses.
a Additional acre-feet diverted: January 1.
b Acre-feet diverted: November 1.
c This acreage also received an undetermined amount of well water.
d Additional acre-feet diverted: January 9.
e Additional acre-feet diverted: January 15.
f Combined acreage for Mile 11.82L and 11.85L.
g Combined acreage for Mile 11.95L, 12.0L, and 12.05L.
h Combined acreage for Mile 12.1L and 12.15L.
i Combined acreage for Mile 12.35L, 12.5L, and 12.6L.
j Combined acreage for Mile 12.39R and 12.41R.
k Includes 18 acres of V. Freggiaro lands.
m Combined acreage for Mile 12.43R, 12.45R, and 12.5R.
n Formerly listed as William Thrush Estate.
p Replaces a 6" unit.
q Formerly listed as Grattone and Bava.
r Combined acreage for Miles 15.4R and 21.6R (6.1L).
s Installed prior to 1957. Not previously listed.
t Previously listed as John Boggiano.
u New installation in 1957.
v 23 acres listed for Mile 20.3L also received an undetermined amount of water from Mile 20.1L.
w Formerly listed as Bethel Guernsey.
x Formerly listed as Frank O. Rossi.
y Previously listed as Guernsey Ranch.
z The acreage listed for Mile 21.01L also received 19 acre-feet of water from Mile 21.0L.
aa Includes 15 acres which also received an undetermined amount of well water.
ab Additional acre-feet diverted: January 13.
ac 150 acres listed for 21.6R (1.81L) also received an undetermined amount of water from Mile 21.6R (2.6R).
ad Combined acreage for Miles 24.3L and 24.4L.
ae Temporary diversion for replenishing ground water.
af Additional acre-feet diverted: November 6.
ag Formerly listed as C. and F. Sanguinetti.
ah Previously listed as J. Caffese and Sons.
ai Additional acre-feet diverted: December 4.
aj Includes 60 acres which also received an undetermined amount of well water.
ak Includes 8 acres of Antonini lands.
am Includes 13 acres of A. Mignacco lands.
an Replaces an 8" unit.
ap Formerly listed as Dick Wilma.
aq Additional acre-feet diverted: January 19 and February 29.
ar Includes 20 acres which also received an undetermined amount of well water.
as Combined acreage for Mile 29.2R and 29.3L.
at Includes 40 acres of Gill lands which also received an undetermined amount of well water.
au Additional acre-feet diverted: November 1.

TABLE 223

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Old San Joaquin River, Tom Paine Slough, and French Camp Slough)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
OLD SAN JOAQUIN RIVER	*												
--CONTRA COSTA CANAL--	30.5L												
John A. Bettencourt	a 30.5L	1-18"		158	38	208	238	208	182	12	1044	b 259	
Augustus Sarija	c 36.5L	2-6"	10	36	30	62	61	53	39	5	d 296	82	

TABLE 223

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Old San Joaquin River, Tom Paine Slough, and French Camp Slough) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
East Contra Costa Irrigation District	c 36.5L	1-18" 3-24" 2-30"	6	4734	4984	7418	7796	6920	3170	433	e 35461	f 16863	
--STATE HIGHWAY 4 BRIDGE--	38.8												
Byron-Bethany Irrigation District	g 40.9L	1-20" 1-24" 1-30"	730	6003	4359	6749	7261	6744	4271	1000	h 37117	i 10354	
--CLIFTON COURT FERRY--	43.8												
--DELTA-MENDOTA CANAL--	44.6L												
M. R. Furtado	j 44.6L	1-14"	20	218	69	227	267	328	231	4	k 1364	m 344	
J. R. Colburn and Fred H. Draper (n)	44.7L	p 1-8"			3	1		4	27	1	36	15	
William M. Ralph	45.3L	1-12"		145	89	204	239	239	148	35	q 1099	310	
C. O. Bankhead and Son	r 47.2L	1-16"		309	40	85	103	82	120		s 739	t 385	
Lucio J. Costa	r 47.2L	1-14"		148			66	23			237	t,u 250	
Johnnie L. Costa	j 47.65L	1-8"	11	42	31	64	68	58	44	19	v 337	80	
West Side Irrigation District	j 47.65L	1-10" 7-15" 1-18"	1095	6755	3457	5798	6960	6199	3679	439	w 34382	x 9736	
Vance Brown	48.4L	1-12"	10	84	65	99	103	87	84	5	y 537	155	
Salles Brothers (z)	49.5L	1-4"		2	1	1			1		5	6	
Naglee Burke Irrigation District	50.4L	1-16" 1-18"	461	1407	693	1566	1876	1824	1171	293	aa 9291	ab 2594	
Fremont Irrigation Association	50.9L	1-16"	30	212	107	303	268	217	170	29	ac 1336	674	
Joe M. Freitas	51.0L	1-8"		17	12	11	26	14	23		103	36	
Attilio Casserini	51.2L	1-10"		26		11	27	10			74	35	
Excelsior Ranch #2	52.4L	1-10"	4	46	13	59	40	28	11		201	113	
A. L. Galli	53.0L	1-8"			5	54	95	70	59	5	d 288	57	
--RECORDING GAGE--	53.0												
--MOUTH OF TOM PAINE SLOUGH--	54.3L												
OLD SAN JOAQUIN RIVER Totals Average cubic feet per second			2377 39	20342 342	13996 228	22920 385	25494 415	23108 376	13430 226	2280 37	123947 255	42348	0
TOM PAINE SLOUGH	**												
Independent Mutual Water Corporation and Company	0.7S	2-18"	90	365	109	402	401	795	266	8	ad 2436	ae 1086	
Independent Mutual Water Corporation and Company	1.5S	1-18"		48		82	51	104	49		af 334	192	
--HOLLY SUGAR CORPORATION DREDGER CUT--	8 2.1S												
George J. Lake	8 (0.5W)	1-10"									ag		
Holly Sugar Corporation	8 (1.2W)	1-14"	42	146		184	379	9	4		764	ah 634	
Holly Sugar Corporation	a1 8 (1.35W)	1-12"	9	256	97	109	11	418	418	432	aj 1750	ah	
--RECORDING GAGE--	2.2S												
Pescadero Reclamation District 2058 (#1)	2.9S	1-12"	57	128	156	169	270	205	110	8	ak 1103	am 245	
Frank Bastian	4.3S	1-5"		41	19	7	8	12			87	12	
Pescadero Reclamation District 2058 (#3)	6.3S	1-12" 1-20" 1-24"	552	2084	1148	2389	2572	2669	1605	292	13311	2458	
Pescadero Reclamation District 2058 (#5)	8.3S	1-12"	29	258	59	162	256	227	61	16	1068	273	
Pescadero Reclamation District 2058 (#5A)	9.0S	1-12"	57	133	86	157	257	256	68	50	1064	207	
TOM PAINE SLOUGH Totals Average cubic feet per second			836 14	3459 58	1674 27	3661 62	4205 68	4695 76	2581 43	806 13	21917 45	5107	0
FRENCH CAMP SLOUGH	***												
Carolyn Weston	1.0SL	1-12"		37		95	40	49	18		239	an 117	
Carolyn Weston	1.4L	1-7"			1	2	24	1	1		ap 29	65	
Carolyn Weston	1.5L	1-6"				4	12	12			aq 28	45	
--FRENCH CAMP TURNPIKE--	2.0												
Frank West	2.2L	1-10"	2	137	146	294	313	236	208	50	ar 1386	am 217	
Manuel E. Granados	2.3R	1-3"				6	3	1			10	4	

TABLE 223

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Old San Joaquin River, Tom Paine Slough, and French Camp Slough Cont'd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre Feet	Acreage Irrigated	
			Mar.	Apr	May	June	July	Aug	Sept	Oct		General	Rice
Frank West	3.0L	1-10"		40	29	87	45	47	39	13	300	am 70	
Tom Gomes	3.3L	1-5"				NO DIVERSION							
Tom Gomes	3.4L	1-4"				NO DIVERSION							
--U.S. 50 HIGHWAY--	3.45												
--SOUTHERN PACIFIC RAILROAD BRIDGE--	3.6												
Milton G. Boege	3.8L	1-8"		3	15	14	16	14	9		71	as 43	
Robert L. Bordenave	3.8R	1-12"		16	28	49	24	29	31		177	50	
--WESTERN PACIFIC RAILROAD BRIDGE--	4.1												
Clark Anderson	4.2R	1-14"				NO DIVERSION							
--GAGING STATION - FRENCH CAMP SLOUGH NEAR FRENCH CAMP--	5.4												
FRENCH CAMP SLOUGH Totals			2	233	219	551	477	389	309	63	2240	591	0
Average cubic feet per second			0	4	4	9	8	6	5	1	5		

* Mileage along Old San Joaquin River from mouth of San Joaquin River 4¼ miles below Antioch.
** Mileage along Tom Paine Slough from its mouth at Mile 54.3L on Old San Joaquin River.
*** Mile and bank above mouth.
8 Holly Sugar Corporation dredger cut joins Tom Paine Slough at Mile 2.1S. Distance along dredger cut and bank is shown in parentheses.
a Rock Slough joins Old San Joaquin River at Mile 30.5L. Pumping plant is located on intake canal which joins Rock Slough.
b Includes 27 acres of G. P. Mercer lands.
c Indian Slough joins Old San Joaquin River at Mile 36.5L. Pumping plant is located on intake canal which joins Indian Slough.
d Additional acre-feet diverted: November 3.
e Additional acre-feet diverted: February 920.
f Includes 15 acres irrigated outside of district. Of this acreage, 1373 was double cropped. This acreage also received 3169 acre-feet of well water.
g Italian Slough joins Old San Joaquin River at Mile 40.9L. Pumping plant is located on intake canal which joins Italian Slough.
h Additional acre-feet diverted: February 461.
i Of this acreage, 712 was double cropped.
j Plant is located on intake canal which joins the Old San Joaquin River at this mile.
k Additional acre-feet diverted: November 45, December 61 and January 11.
m Of this acreage, 90 was double cropped.
n Formerly listed as Emil Hoefer.
p The 8" unit replaced a 5" unit in August, 1957.
q Additional acre-feet diverted: November 1.
r Plant is located on Mountain House Creek which joins the Old San Joaquin River at this mile.
s Additional acre-feet diverted: November 7.
t This acreage also received an undetermined amount of Mountain House Creek water.
u Of this acreage, 70 was double cropped.
v Additional acre-feet diverted: November 5.
w Additional acre-feet diverted: November 76 and February 148.
x This acreage also received 4013 acre-feet of well water. Includes 158 acres of outside contract lands. Of this acreage, 626 was double cropped.
y Additional acre-feet diverted: November 11 and February 13.
z Previously listed as Naglee Burke Irrigation District.
aa Additional acre-feet diverted: February 326.
ab Includes 20 acres irrigated outside of diatrict. Of this acreage, 442 was double cropped.
ac Additional acre-feet diverted: January 62 and February 139.
ad Additional acre-feet diverted: December 643, January 302 and February 73.
ae Of this acreage, 49 was double cropped.
af Additional acre-feet diverted: December 185 and January 253.
ag Acre-feet diverted: December 96.
ah Combined acreage for Miles 8(1.2W) and 8(1.35W). Includes 20 acres which also received an undetermined amount of well water.
ai Previously listed as Mile 8(1.2W).
aj Additional acre-feet diverted: November 397 and December 342. Includes an undetermined amount of water used for industrial purposes.
ak Additional acre-feet diverted: February 23.
am Of this acreage, 40 was double cropped.
an Of this acreage, 60 was double cropped.
ap Additional acre-feet diverted: December 35 and January 20.
aq Additional acre-feet diverted: December 13 and January 2.
ar Additional acre-feet diverted: November 16, December 7 and February 3.
as This acreage was double cropped.

TABLE 224

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
--STATE HIGHWAY 4 BRIDGE--	45.3												
--FRENCH CAMP SLOUGH--	46.1R												
Carolyn Weston	46.1R	1-4"				NO DIVERSION							
Carolyn Weston	46.2R	1-6"				3	15	7			a 25	65	
Carolyn Weston	46.3R	1-12"		35	25	144	95	107	15	16	437	215	
Mrs. John Lillie (b)	46.65R	1-10"				42	117	59	25		243	80	
Frank West	46.85R	1-10"		27		101	74	63	37	13	315	c 149	
F. Asano	47.2R	1-6"		13	13	19	36	29	16	1	d 127	37	
Wolfinger Brothers	47.3R	1-10"				33	70	38			141	50	
C. C. Long	47.55R	1-10"		50	68	122	139	93	40		512	183	
Waldo C. Haack	48.0R	1-14"		181	67	25	146	261			680	e 365	
Chow L. Young	48.3R	1-6"		2	3	7	13	12	7	1	f 45	25	
Joe Calcagno	48.5R	1-6"		6	43	37	33	52	14		185	90	
C. J. Pregno	48.55R	1-6"		15							15	30	

TABLE 224

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
John Calcagno	48.66R	1-12"		92	51	124	88	91	35	1	g 482	h 160	
Alfred Rodgers	49.0R	1-12"		14	38	90	74	75	60	6	357	75	
Ray Muller and P. Terry	49.3R	1-14"		59	1	47	48	63	14		232	i 210	
Ray Muller and P. Terry	49.5R	1-12"		53							53	i	
A. A. Rodgers	50.1R	1-10"		15	17	56	55	48	32	13	j 236	k 82	
--BRANDT BRIDGE--	50.2												
A. Hirata	50.4R	1-10"		51	3	69	42	20	39	19	m 243	n 88	
K. R. and F. Watanabe	50.6R	1-6"		41	34	39	43	38	1		196	54	
D. Toscano	50.8R	1-6"		6	8	17	19	18	8		76	p 40	
Pastorino Brothers	50.9R	1-12"		22	117	124	87	125	111	15	601	120	
Pastorino Brothers	51.0R	1-6" 1-10"				PLANT REMOVED							
Felipe Esteban	51.2R	1-12"			26		28	20			j 74	100	
W. B. Herbert and Y. B. Lawrence (q)	51.6R	1-10"		27	52	106	61	54	60		360	90	
C. Santini	52.4R	1-5"					12	5	6		23	17	
E. P. Valla	52.65R	1-10"		3		112	111	74	5		305	80	
J. Widmer	53.2R	1-16"	46	80	146	211	195	217	211		r 1106	405	
William Nishimura	53.4R	1-8"					PLANT REMOVED						
J. Widmer	53.45R	1-12"	8		18	35	26	25	18		130	s 51	
Julio Lorenzo	53.5R	1-8"	1	8	17	9	10	20	16	4	t 85	30	
Mack Sung (u)	53.55R	1-2"	1	1	1		1				4	4	
John Caparra	53.6R	1-4"	1	5	6	7	14	12	5	3	f 53	15	
J. Romo and B. Andaya (v)	53.7R	1-14"	5	52	77	55	111	98	57	22	w 477	280	
I. N. Robinson, Jr.	53.8R	1-14"		307	2	212	194	210	196	19	x 1140	388	
H. N. Hansen, H. C. Hansen and William Giger	54.9R	1-10"		66	113	136	131	145	123	100	y 814	157	
--JUNCTION WITH MIDDLE RIVER--	56.2L												
Oakwood Stock Farm	57.0R	1-14"		158	91	355	369	308	107	33	1421	480	
James Tobin	57.15R	1-7"					NO DIVERSION						
Frank Dewar, et al.	57.38R	1-4"					PLANT REMOVED						
A. J. Thomsen (z)	57.39R	1-5"			32	32	21	22	18		125	aa 29	
Andrew B. Calori	57.45R	1-6"			8	3	15	8			34	30	
G. Gardella and Company	57.5R	1-4"	2	9	1	3	13	3	5		ab 36	20	
A. Quierolo	58.6R	1-4"		12	1	10	17	24	1		65	15	
R. Mauro	58.7R	ac 1-6"				5	6	3	4	2	20	13	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	58.8												
--U.S. 50 HIGHWAY - MOSSDALE BRIDGE RECORDING GAGE--	58.9												
Mertle Abersold	59.25R	1-6"		7	11	18	19	41	26	2	ad 124	44	
M. H. Madruga	59.3R	1-15"	2	115	131	286	236	211	162	59	1202	249	
Eugene J. Rossi, et al.	59.5L	1-14"		64	44	135	58	81	69		ae 451	af 170	
--WESTERN PACIFIC RAILROAD BRIDGE--	59.5												
M. H. Madruga	ag 60.1R	1-6"		17	9	21	17	23	6	11	104	30	
G. M. Baird	ag 60.1R	1-16"		213		299	226	309	80	55	ah 1182	ai 197	
James and Leslie Little	60.4L	ac 1-3"	3	1							4	7	
A. F. Windeler	60.5L	1-16"		55	91	126	135	110	107		aj 622	ak 182	
E. Picchi and Son	60.8R	1-8"		97	12	95	29	66	29	28	356	68	
E. Picchi and Son	61.4R	1-12"		181			159	112	39		491	am 219	
Jack Williams	62.0R	1-8"					63		22		85	50	
Bernice Van Soster	62.0L	1-12"		110	156	204	278	214	92	25	an 1079	226	
--PARADISE DAM (HEAD OF PARADISE CUT)--	62.2L												
Paradise Mutual Water Company	ap 62.2L	1-14" 1-20"		265	58	308	431	345	345	10	aq 1762	824	
Dethlefsen Brothers	63.0L	2-20"		321	52	298	756	566	103	1	ar 2097	1190	
State of California	63.3L	1-14"	56	324	155	216	274	327	262	64	as 1678	531	
H. H. Grimes	63.6R	1-12"		134	22	137	190	174	68	8	733	at 211	
Dethlefsen Brothers	64.6L	1-10"				50	65	24			139	45	
Alexander Hilderbrand	au 66.0R	1-6"		2			15	3	4	3	27	ai 8	
Johnnie J. Silva	66.7L	1-8"		73	92	65	99	95	66	25	av 515	162	

TABLE 224

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct		General	Rice
George A. Plummer (z)	67.0R	1-6"							7		7	11	
Banta Carbona Irrigation District	aw 67.5L	2-10" 2-16" 2-20" 3-24" 1-36"	947	12088	6660	8928	11082	9226	3972	878	ax 53781	ay17331	
William Piccinini	68.2R	1-10"			9		65	27	28		129	81	
Olen M. West	70.0L	az 1-10"		17	63	38	63	81	43		f 305	130	
San Joaquin River Water Users Company	71.0R	2-16"	70	1101	385	1009	684	1048	607	3	ba 4907	bb 1320	
E. Filippini	71.0R	1-6"				4	8	11			23	9	
Tony M. Cardoza	71.75R	1-4"	NO DIVERSION										
Tony M. Cardoza	72.1R	1-10"			14	23	31	20			88	45	
H. J. Mortenaen and Barker	73.2R	1-8" 1-12"	95	285	50	261	161	229	12		1093	bc 316	
San Joaquin River Club	74.7L	1-6"	96	54	29	123	39	104	97	61	bd 603	be 50	
E. A. Tasai	75.6R	1-16"		39	60	77	185	150	93	69	bf 673	bg 340	
SAN JOAQUIN RIVER (Stockon to Vernalis) Totals			1333	16971	9182	15111	17897	16044	7625	1570	85733	28370	0
Average cubic feet per second			22	285	149	254	291	261	128	26	176		

* Mileage along San Joaquin River from its mouth 4½ miles below Antioch.
a Additional acre-feet diverted: January 30.
b Formerly listed as Ivy Ranney.
c Of this acreage, 59 was double cropped.
d Additional acre-feet diverted: November 1, December 2 and January 1.
e This acreage also received an undetermined amount of water from controlled drainage.
f Additional acre-feet diverted: November 1.
g Additional acre-feet diverted: November 19.
h Includes 30 acres which also received an undetermined amount of well water.
i Combined acreage for Miles 49.3R and 49.5R.
j Additional acre-feet diverted: November 7.
k Of this acreage, 12 was double cropped.
m Additional acre-feet diverted: December 1.
n Of this acreage, 52 was double cropped. Includes 52 acres of Vieira lands.
p Of this acreage, 20 was double cropped.
q Formerly listed as J. Burchell Estate.
r Additional acre-feet diverted: December 83 and January 4.
a Includes 30 acres of Nishimura lands.
t Additional acre-feet diverted: November 2, December 8 and January 4.
u Previously listed as Mike Sung.
v Formerly listed as Fred Brandenburg.
w Additional acre-feet diverted: November 25 and December 9.
x Additional acre-feet diverted: November 30 and December 10.
y Additional acre-feet diverted: November 16.
z New installation in 1957.
aa Includes 12 acres of Dewar lands.
ab Additional acre-feet diverted: December 9 and January 3.
ac Replaces a 4" unit.
ad Additional acre-feet diverted: November 11, December 2, January 1 and February 1.
ae Includes an undetermined amount of water returned to river by spill. Additional acre-feet diverted: November 28.
af Of this acreage, 45 was double cropped.
ag Plant is located on Walthall Slough which joins the San Joaquin River at this mile.
ah Additional acre-feet diverted: November 191.
ai This acreage was double cropped.
aj Additional acre-feet diverted: November 24.
ak Of this acreage, 42 was double cropped.
am Of this acreage, 125 was double cropped.
an Additional acre-feet diverted: January 1.
ap Plant is located on Paradise Cut which joins the San Joaquin River at this mile.
aq Additional acre-feet diverted: December 365 and January 103.
ar Additional acre-feet diverted: November 499, December 758 and January 1.
as Additional acre-feet diverted: November 29, December 14, January 27 and February 9.
at Of this acreage, 10 was double cropped.
au Pump is located on old channel which joins the San Joaquin River at this mile.
av Additional acre-feet diverted: December 4 and February 95.
aw Plant is located on intake canal which joins the San Joaquin River at this mile.
ax Additional acre-feet diverted: November 222 and February 378.
ay Includes 811 acres of Banta Irrigated Farms, 599 acres of Kasson District and 1191 acres of outside contracts. Of this acreage, 466 was double cropped. Portions of this acreage received an undetermined amount of well water. This acreage also received 1400 acre-feet of Delta-Mendota Canal water as follows: July 1020 and August 380.
az Replaces a 6" unit.
ba Additional acre-feet diverted: November 3 and December 4.
bb Of this acreage, 189 was double cropped.
bc Of this acreage, 153 was double cropped.
bd Additional acre-feet diverted: November 78, December 63, January 51 and February 48.
be Recreational lakes. Also received an undetermined amount of controlled drainage water.
bf Additional acre-feet diverted: November 33 and December 21.
bg Of this acreage, 225 also received an undetermined amount of controlled drainage water.

TABLE 225

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Calaveras River, Mokelumne River, Cosumnes River, Sacramento River below Sacramento, and Yolo Bypass - West Cut)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr	May	June	July	Aug.	Sept.	Oct.		General	Rice
CALAVERAS RIVER (a) Totals			11	7	17	145	173	177	36	1	567	228	0
Average cubic feet per second			0	0	0	2	3	3	1	0			
MOKELUMNE RIVER (b) Totals			2	412	824	1669	1968	1391	696	136	7098	2206	0
Average cubic feet per second			0	7	13	28	32	23	12	2	15		
COSUMNES RIVER (c) Totals			16	43	62	161	456	354	34	28	1154	1584	0
Average cubic feet per second			0	1	1	3	7	6	1	0	2		

TABLE 225

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Calaveras River, Mokelumne River, Cosumnes River, Sacramento River below Sacramento, and Yolo Bypass - West Cut) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
SACRAMENTO RIVER BELOW SACRAMENTO	*												
--RIO VISTA BRIDGE--	12.9												
John Lira	13.0R	1-6"		2		2	1	2	1		8		
C. A. Beach	45.2L	1-12"				33	46	7			86	25	
W. and B. Correa	45.5L	1-10"					22				22	d 50	
Hack and Forsythe	45.75L	1-6"				NO DIVERSION							
A. J. Sweeney	45.95L	1-10"		16		124	190	125			455	175	
--FREEPORT BRIDGE--	46.0												
Freeport Development Company	46.25L	1-8"			14	209	222	84			529	190	
L. J. Dee	46.8L	1-10"				43	50	2			95	70	
L. G. Klotz	47.3L	1-8"		16	18	39	24	32	21		150	37	
E. A. Franklin	47.5L	1-8"				NO DIVERSION							
George Coleman	47.7L	1-6"				48	37	34			119	54	
M. A. Richardson	53.7L	1-6"				5	8	11			24	19	
--"M" STREET BRIDGE--													
SACRAMENTO RIVER BELOW SACRAMENTO Totals			0	34	32	503	600	297	22	0	1488	622	0
Average cubic feet per second			0	1	1	8	10	5	0	0	3		
YOLO BYPASS (WEST CUT)	**												
H. L. Sorensen	4.2R (1.9)	1-14"		71	5	186	160	144	197	11	e 774	160	
Mounds Farms	4.2R (2.0)	2-12"		76	94	275	310	171	352	171	f 1449	g 500	
H. L. Sorensen	4.2R (2.0)	1-16"		112	37	313	382	253		155	h 1252	320	
Yolo Flyway Farms (1)	5.7R (0.1)	Gravity								22	22	j 15	
Yolo Flyway Farm (k)	5.7R (0.9)	1-18"			27	86	128	200	108	517	m 1066	n 280	
R. S. W. Ranch	5.7R (1.5)	1-16"		189	202	346	384	334	204	159	p 1818	400	
Fridolf Anderson	6.75R(0.6)	1-16"				NO DIVERSION							
James Iriart	7.85R	1-16"				73	448	359			q 880	400	
Swanston Land Company	7.87R(1.7)	1-16"				52	451	379			882	650	
Vaughn and Burlingham	7.87R(2.1)	1-14"		67	48	100	138	146	61		r 560	220	
Vaughn and Burlingham	7.87R(2.5)	1-14"		110	81	187	230	153	145	18	r 924	311	
Vaughn and Burlingham	7.87R(2.7)	1-14" 1-16"		252	204	436	579	598	224		s 2293	695	
Swanston Land Company	8.7R	1-16"					174	131	28	57	t 390	u 340	
J. H. Glide Estate	9.3R	1-14"									v		
T. S. Glide	10.9R (0.4)	1-20"		107	78	203	689	324	400	381	w 2182	w,x 1822	
T. S. Glide	11.0R	1-10"				NO DIVERSION							
T. S. Glide	12.4R	1-14"					53	158			211	170	
T. S. Glide	13.15R	1-20"					65				65	180	
--SACRAMENTO NORTHERN RAILROAD--	13.2												
T. S. Glide	13.5R	1-6"				NO DIVERSION							
T. S. Glide	14.8R	2-16"					114	115			229	300	
T. S. Glide	17.1R(1.8)	3-20"		767	2634	1350	4411	2353	467	274	y 12256	z 5790	
T. S. Glide	18.6R	1-36"				NO DIVERSION							
--U. S. 40 AND 99W CAUSEWAY--	20.1												
YOLO BYPASS (WEST CUT) Totals			0	1751	3410	3607	8716	5818	2186	1765	27253	12553	0
Average cubic feet per second			0	29	55	61	142	95	37	29	56		

TABLE 225

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Calaveras River, Mokelumne River, Coeumnes River, Sacramento River below Sacramento, and Yolo Bypass - West Cut) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

* Mileage above Chain Island.
** Mileage above Prospect Island.
a Below gaging station - Calaveras River near Stockton, Mile 7.9. Individual diversions are shown in Table 222.
b Below gaging station - Mokelumne River at Woodbridge, Mile 19.2. Individual diversions are shown in Table 221.
c Below gaging station - Coeumnes River at McConnell, Mile 10.7. Individual diversions are shown in Table 220.
d This acreage also received an undetermined amount of controlled drainage water.
e Additional acre-feet diverted: January 15.
f Additional acre-feet diverted: November 148, December 90 and January 36.
g Includes 300 acres of duck club lands.
h Additional acre-feet diverted: November 16, December 21 and January 11.
i Temporary diversion during 1957
j All duck club lands.
k Formerly listed as Charles L. Maben.
m Additional acre-feet diverted: November 222, December 376 and January 42.
n Of this acreage, 20 was used for duck clubs only and 260 was reused for duck clubs. Includes 60 acres Maben lands.
p Additional acre-feet diverted: November 1, December 83 and January 26.
q Additional acre-feet diverted: November 153 and December 23.
r Additional acre-feet diverted: November 6 and December 22.
s Additional acre-feet diverted: November 12 and December 94.
t Additional acre-feet diverted: November 72 and December 45.
u Includes 90 acres of duck ponds.
v Acre-feet diverted: November 21.
w Additional acre-feet diverted: November 29 and December 128.
x Includes 160 acres of duck ponds.
y Additional acre-feet diverted: November 98 and December 172.
z Includes 80 acres of duck ponds.

TABLE 226

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Miscellaneous Delta Uplands)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre Feet	Acreage Irrigated	
			Mar	Apr	May	June	July	Aug.	Sept.	Oct		General	Rice
MISCELLANEOUS DELTA UPLANDS													
Five Mile Slough													
Sam Hernandes	2/6-17D	1-3"		3	3	6	9	8	3		32	8	
Guodi Segarini	2/6-17C	1-12"	NO DIVERSION										
Lawrence Jimenez	2/6-8N	1-8"	1	8	2	13	11	10	10		55	14	
Disappointment Slough													
N. Moffat Co. and Eldon Land Co.	2/6-6F	1-18"		195	224	440	491	448	327		a 2125	400	
N. Moffat Co. and Eldon Land Co.	2/6-6J	1-14"		242	228	505	577	558	383		b 2493	375	
Telephone Cut													
E. V. Lang	3/5-35A	Gravity	52	66	73	95	107	90	66	142	c 691	237	
E. V. Lang	3/5-36D	Gravity								65	d 65	108	
E. V. Lang	3/5-36C	Gravity								27	e 27	45	
E. V. Lang	3/5-26R	Gravity								42	f 42	70	
White Slough													
Bert Van Ruiten (g)	3/5-25C	1-16"	1	151	117	189	237	242	174	53	h 1164	330	
Bert Van Ruiten (g)	3/5-26C	1-12"		16	36	114	161	109			436	145	
Nog Slough													
Robinson Farms	4/5-28B	Gravity		8	12	12	12			16	i 60	j	
Robinson Farms	4/5-28B	Gravity			16	82	60	28	35	49	k 270	j 182	
Thompson-Folger Company	4/5-28C	1-12" Gravity	14	113	163	229	327	342	204	184	m 1576	546	
Beaver Slough													
C. B. Orvis	4/5-15C	1-15"	25	87	101	127	181	155	106	30	n 812	190	
C. B. Orvis	4/5-15D	1-18"	18	123	40	494	417	328	247	86	1753	p 470	
Canal Ranch	4/5-16B	1-8"		75	159	151	130	120	97	39	771	184	
Canal Ranch	4/5-16D	1-8"		59	54	63	107	91	64	23	461	80	
Burton Slough													
Egbert O. Morse	5/5-28D	1-10"				5	12	10			27	20	
Barnes Ranch	5/5-29D	1-4"	NO DIVERSION										
Egbert O. Morse	5/5-20K	1-8"				8	43	21			72	87	
Egbert O. Morse	5/5-16N	1-16"				115	305	143	57		q 620	350	
Egbert O. Morse	5/5-15M	1-10" 1-12" 1-14"			365	911	780	720	267		3043		304
East Dredger Cut-Snodgrass Slough													
Edwards Brothers (r)	6/5-31R	e 2-12"		13	119	110	172	143	62		619	200	
Alfred Kuhn	6/5-31N	1-14"	PLANT REMOVED										
Alfred Kuhn	6/4-36Q	1-16"		43	41	199	309	198	95	16	901	351	
Duck Slough Extension													
Isabella Wineman	6/2-26B	1-14"		114	101	241	164	155	134		909	222	
Isabella Wineman	6/2-26D	1-12"		104	103	164	200	167	138		t 876	149	

TABLE 226

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Miscellaneous Delta Uplands) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Isabella Wineman	6/2-26J	1-14"		133	203	230	315	227	210	46	u 1364	338	
Hass Slough													
Raahauge and Joseph	6/2-33H	1-12"		51	32	57	67	28	50	56	v 341	w 40	
Reclamation District 2068	6/2-34G	2-30" 1-36"	98	5451	5549	10602	10602	9792	7287	1502	x 50883	y 12696	
Francis F. Gunning	6/2-34P	1-16"		178	208	309	399	398	252	104	z 1848	aa 340	
Cache Slough													
Ervin E. Vassar	5/2-4B	1-14"		88	33	242	170	296	226	69	ab 1124	260	
Jack Parker	5/2-4K	1-12"		37	20	71	54	33	38	22	ac 275	120	
Ervin E. Vassar	5/2-4K	1-20"		103	129	283	326	217	181	85	ad 1324	ae 470	
Calhoun Cut													
Hamilton and Nyman	5/1-25D	1-10"		5	9	7	13	9	11	6	60	23	
Matilda Hall	5/2-19J	1-10"		8	33	81	88	41	34	16	af 301	110	
Unaegregated													
Porter Estate Company (ag)	2/3-19E	1-16"	10	20	16	17	17	17	16	16	ah 129	18	
George Emde	3/5-23L	1-10"		51	60	37	68	69	42		327	120	
George Emde	3/5-14L	1-14"		40	93	125	108	112	101	78	ai 657	aj 132	
Cotta and Sousa	4/5-34Q	1-16"		179	271	407	315	267	202	77	ak 1718	am 440	
W. C. Hamel (an)	8/3-19Q	1-4"				46					46	ap 78	
W. C. Hamel (an)	8/3-29F	1-4"				18					18	ap 18	
W. C. Hamel	8/3-30B	1-10"		49	24	22					95	ap 160	
N. L. Sorensen	6/3-18F	1-14"									aq, ar		
H. L. Sorensen	6/3-20J	1-14"				39	112			237	as 388	at au 530	
N. L. Sorensen	6/3-19E	1-14"		22	149	289	346	258	260 q	181	av 1505	aw 500	
N. L. Sorensen	6/3-30D	1-14"		103	283	380	443	309	313	177	au ax 2008	aw	
N. L. Sorensen	6/3-30L	1-16"		104	63	145	233	246	135	54	ay 980	275	
Reclamation District 2068	6/2-25P	1-12"									ar		
Sub-Irrigated Lands (az)			86	110	122	157	177	149	110	94	1005	393	
Stone Lake Diverters	ba 6/4-36N	Gravity			334	1460	2545	1701	992	40	7072		
MISCELLANEOUS DELTA UPLANDS Totals			305	8152	9588	19297	21210	18255	12929	3632	93368	21824	304
Average cubic feet per second			5	137	156	324	345	297	217	59	192		
DELTA UPLANDS Totals			4880	51400	39000	67630	81200	70530	39840	10280	364800	115433	304
Average cubic feet per second			79	864	634	1137	1320	1147	670	167	751		
Monthly use in per cent of seasonal			1.3	14.1	10.7	18.5	22.3	19.3	10.9	2.8			

* Figures represent North Townships, East Ranges and sections. Letters represent the 1/4-1/4 sections which are lettered from A through R excluding I and O, similar to the numbering of sections within a township.

a Additional acre-feet diverted: January 20.
b Additional acre-feet diverted: January 44.
c Additional acre-feet diverted: November 45 and December 31. Includes 549 acre-feet received by sub-irrigation.
d Additional acre-feet diverted: November 21 and December 14.
e Additional acre-feet diverted: November 9 and December 6.
f Additional acre-feet diverted: November 21 and December 7.
g Formerly listed as J. O. and S. W. Imeson.
h Additional acre-feet diverted: December 5 and January 5.
i Additional acre-feet diverted: November 135 and December 113
j Combined acreage for two plants at 4/5-28B. This acreage also received an undetermined amount of Woodbridge Irrigation District water and was reused for duck clubs.
k Additional acre-feet diverted: January 25.
m Additional acre-feet diverted: November 93, December 58 and January 6.
n Additional acre-feet diverted: November 6 and December 12.
p Includes 60 acres which also received an undetermined amount of controlled drainage water.
q Additional acre-feet diverted: December 10.
r Formerly listed as Alfred Kuhn.
s One 12" unit was added in 1957.
t Additional acre-feet diverted: January 38.
u Additional acre-feet diverted: November 27, December 33 and January 13.
v Additional acre-feet diverted: November 26 and December 6.
w This acreage was reused for duck ponds.
x Additional acre-feet diverted: November 597, December 1804 and January 710.
y Includes 1406 acres outside district and 370 acres of duck clubs.
z Additional acre-feet diverted: November 64, December 101 and January 14.
aa Of this acreage, 10 was reused for duck clubs.
ab Additional acre-feet diverted: November 28 and December 21.
ac Additional acre-feet diverted: November 7, December 11 and January 5.
ad Additional acre-feet diverted: November 58, December 205 and January 4.
ae Of thia acreage, 40 was reused for duck clubs.
af Additional acre-feet diverted: November 17 and December 9.
ag Formerly listed as B. F. Porter Estate.
ah Includes an undetermined amount of Marsh Creek water.
ai Additional acre-feet diverted: November 31 and December 46.
aj Includes 20 acres of duck ponds.
ak Additional acre-feet diverted: November 3.
am This acreage also received an undetermined amount of Woodbridge Irrigation District water.
an Installed prior to 1957. Not previously listed.
ap This acreage also received an undetermined amount of well water.
aq Acre-feet diverted: November 2 and December 5.
ar Diversion in 1957 was all controlled drainage water.
as Additional acre-feet diverted: November 12.
at Includes 330 acres used for duck clubs.
au 250 acres listed for 6/3-20J also received an undetermined amount of water from 6/3-30D.
av Additional acre-feet diverted: November 17 and January 1.
aw Combined acreage for 6/3-19E and 6/3-30D.
ax Additional acre-feet diverted: November 44, December 143. and January 10.
ay Additional acre-feet diverted: November 20, December 86 and January 63.
az Estimated consumptive use on lands in Delta Uplands considered as sub-irrigated from tidal channels during 1957 without a specific point of diversion.
ba Point of diversion is considered as the control gates at Lambert Road.

TABLE 227

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Vernalis to Fremont Ford Bridge)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar -Oct Acre-Feet	Acreage Irrigated	
			Mar	Apr	May	June	July	Aug.	Sept	Oct		General	Rice
--DURHAM FERRY BRIDGE - GAGING STATION - SAN JOAQUIN RIVER NEAR VERNALIS--	76.7												
A. J. Chisholm	78.9R	1-10"	30	279	96	142	368	362	130		a 1407	b 305	
Cruze, Gonsalves and Moresco	79.4R	1-20"	26	117	44	138	147	222	1		695	c 195	
--STANISLAUS RIVER--	79.7R												
W. C. Blewett Estate	80.7L	1-12"	83	267	94	322	385	189	131	20	1491	195	
W. C. Blewett Estate	81.8L	2-12" 1-14"	201	883	392	564	1006	780	456	77	d 4359	e 823	
--MAZE ROAD BRIDGE - RECORDING GAGE--	81.85												
Blewett Mutual Water Company	81.95L	1-10" 2-12"	45	730	760	923	1071	916	715	178	f 5338	1066	
El Solyo Water Company	82.0L	1-10" 3-18"	265	2863	1592	1884	2784	2758	1299	310	g 13755	h 3582	
--GAGING STATION - SAN JOAQUIN RIVER AT HETCH HETCHY WATER SUPPLY CROSSING--	82.65												
El Solyo Ranch (1)	82.9L	1-16"		106	65	49	191	211	10		632	165	
El Solyo Ranch	83.5L	1-12"		131	103	118	122	126	98	27	725	132	
El Solyo Ranch	83.7L	1-12"		24		87	91	86	52	41	381	j 80	
Faith Ranch	84.4R	1-20"		271		338	206	208			1023	k 439	
--TUOLUMNE RIVER--	91.0R												
--RECORDING GAGE--	91.8L												
--WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8L												
West Stanislaus Irrigation District	91.8L	1-12" 1-24" 6-26"	2014	15093	10652	16589	19876	14415	6771	490	m 85900	n 22959	
Fred Lara #1	**(0.6S)	1-14"	60	60	18	218	274	137			767	211	
Frank Sarmento #1	**(0.7N)	2-16"	157	405		160	132	77	263	31	1225	p 1070	
Frank Sarmento #2	**(1.1N)	1-14" 1-16"	76	524	53	609	460	498	494		2714	p	
Fred Lara #2	**(2.2S)	1-16"	25		17	36	21	32	13		q 144	r 50	
Frank Sarmento #3	**(2.3N)	2-16"		374		288	352	347	139		1500	s 356	
J. V. Steenstrup Estate	93.1R	2-12"		133	186	58	198	185			760	140	
Walter W. Crawford	93.2L	t 1-6"			18	18	16	10	13	4	79	12	
Walter W. Crawford	93.4L	t 1-5" t 1-6"		7	14	34	19	14	13	4	105	12	
George Covert	894.1L	1-3" 2-6"		54	39	64	80	92	89	33	u 451	v 115	
Rancho Dos Rios	94.7R	1-12"	11	238	245	448	268	334	219	7	w 1770	x 411	
L. S. Crane	95.5R	1-16"	17	211	100	278	168	208	192	17	y 1191	260	
Bostick Brothers	95.8R	1-10"				159	111	155	24		449	86	
W. R. Cook	96.0L	1-18"	56	254	186	425	447	485	212	81	aa 2146	ad 495	
--GAGING STATION - SAN JOAQUIN RIVER AT GRAYSON (LAIRD SLOUGH BRIDGE)--	96.05												
E. S. Brush	98.5R	1-7"		11		2	27	27	15		82	ac 50	
Rancho El Peacadero	98.9L	1-18"	114	299	154	444	403	389	145	66	2014	ad 948	
John C. Tosta	103.0L	1-14"	12	29	28	28	44	19	19	2	181	60	
--PATTERSON BRIDGE - RECORDING GAGE--	104.4												
Patterson Water District	104.4L	1-14" 2-18" 3-20" 1-36	846	8272	5514	7230	8546	8003	4618	439	ae 43468	af 13866	
Chase Brothers	104.5R	1-10" 1-18"	35	246	305	291	453	502	254	77	2163	472	
M. L. Simmons	104.52L	1-5"				10	5	4			19	11	
Charles Kincaid	104.7L	1-3"	NO DIVERSION										
Chase Brothers	106.5R	1-10" 1-12"	221	713	275	323	242	341	250	121	2486	500	
Tony Spinelli	109.1R	1-12"	32	57	75	49	84	76	51		ag 424	79	
Twin Oaks Irrigation Company	109.8L	1-12" 2-16" 1-18"	187	1208	297	841	765	864	702	530	5394	ah 2005	
T. J. Henderson	110.8R	1-8"					11	15	10		36	ai 150	
J. Holtzman	112.5L	1-3"		3	8	12	12	8	5		48	21	
L. A. Thomson and J. H. Barbour	112.55R	1-16"	56	217	60	170	236	240	222	10	1211	aj 298	

TABLE 227

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Vernalis to Fremont Ford Bridge) (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
Turlock Sportsmen Club	113.3R	1-2"			1	2	2	3	2		ag 10	4	
Frank C. Mosier	113.4R	1-10"	45	132	136	116	231	179	195	86	ak 1120	196	
--CROWS LANDING BRIDGE - RECORDING GAGE--	113.5												
Alfred Silveira (am)	113.85R	1-6"				3					3	10	
Alfred Silveira (am)	114.35R	1-7"		5	5	15	14	14	7		60	23	
Hazel P. Crow	114.6L	1-2"		6	8	5	8	8	4	2	41	13	
Frank C. Mosier	114.63R	1-8"	15	54	52	76	66	63	69	45	440	90	
Manuel A. Serpa	114.75R	2-10"	93	142	203	301	322	279	262	53	an 1655	294	
Hazel P. Crow	115.0L	1-10"											
Roy F. Crow	115.8L	1-10"			73	167	119	161	43	20	ap 583	aq 143	
L. B. Crow	116.05L	1-14"	18	131	143	172	203	169	124	11	ar 971	as 210	
John W. Greer	116.5R	1-12"	160	243	240	398	349	272	230		1892	276	
D. L. McCoy	88116.95R	1-10" 1-12"									at		
--MERCED RIVER SLOUGH--	122.2R												
--GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN--	123.7												
--MERCED RIVER--	123.75R												
VERNALIS TO FREMONT FORD BRIDGE													
Totals			4900	34790	22250	34600	40940	34480	18560	2780	193300	52878	D
Average cubic feet per second			80	585	362	582	666	561	312	45	398		
Monthly use in per cent of seasonal			2.5	18.0	11.5	17.9	21.2	17.8	9.6	1.5			

* Mileage along San Joaquin River from its mouth 4½ miles below Antioch.
** West Stanislaus Irrigation District Intake Canal. The Intake Canal joins the San Joaquin River at Mile 91.8L. Distance from the San Joaquin River and the bank is shown in parentheses.
88 Pumping plant is located on old channel which joins the San Joaquin River at this mile.
88 Pumping plant is located on drain which joins the San Joaquin River at this mile.
a Additional acre-feet diverted: December 2.
b Of this acreage, 180 was double cropped.
c Of this acreage, 135 was double cropped. Includes 60 acres of Chisholm lands.
d Additional acre-feet diverted: November 45 and December 72.
e Includes 705 acres which received an undetermined amount of controlled drainage water.
f Additional acre-feet diverted: January 2 and February 23.
g Includes an undetermined amount of water returned to river by spill.
h Of this acreage, 43 was double cropped. This acreage also received an undetermined amount of controlled drainage water. Includes 268 acres which also received an undetermined amount of well water.
i New installation in 1957.
j Of this acreage, 40 was double cropped.
k Of this acreage, 400 was double cropped.
m Additional acre-feet diverted: November 477, December 367, January 916 and February 1259.
n This acreage also received 19939 acre-feet of Delta-Mendota Canal water as follows: April 3025, May 576, June 4156, July 7509 and August 4673. Of this acreage, 1633 was double cropped. Includes 1914 acres irrigated outside of district plus 22 acres of Banta Carbona Irrigation District land. Portions of this acreage received an undetermined amount of well water.
p Combined acreage for Miles **(0.7N) and **(1.1N).
q Additional acre-feet diverted: December 8 and January 5.
r Of this acreage, 25 was tripple cropped.
s Of this acreage, 154 was double cropped.
t Replaces a 6" portable unit formerly listed for Miles 93.2L and 93.4L.
u Additional acre-feet diverted: November 25.
v Includes 20 acres which received an undetermined amount of controlled drainage water.
w Additional acre-feet diverted: November 5, December 31, January 14 and February 2.
x Of this acreage, 85 was double cropped.
y Additional acre-feet diverted: December 41.
z Of this acreage, 89 received an undetermined amount of Turlock Irrigation District water.
aa Additional acre-feet diverted: November 16, December 3, January 6 and February 41.
ab Of this acreage, 25 was double cropped.
ac This acreage was double cropped.
ad Of this acreage, 78 was double cropped and 825 received an undetermined amount of well water.
ae Additional acre-feet diverted: November 120 and December 380.
af Of this acreage, 2298 was double cropped and 52 received an undetermined amount of well water. This acreage also received an additional 2972 acre-feet of Delta-Mendota Canal water as follows: April 592, May 409, June 483, July 560, August 508, September 347 and October 73.
ag Additional acre-feet diverted: November 1.
ah Of this acreage, 557 was double cropped.
ai This acreage also received an undetermined amount of Turlock Irrigation District water.
aj Of this acreage, 160 was double cropped.
ak Additional acre-feet diverted: November 2.
am Formerly listed as A. J. Silveira.
an Additional acre-feet diverted: February 80.
ap Additional acre-feet diverted: February 55.
aq Includes 100 acres which also received an undetermined amount of Central California Irrigation District water.
ar Additional acre-feet diverted: November 13, December 75 and January 58.
as Of this acreage, 63 was double cropped.
at Plant no longer diverts San Joaquin River water and will not be listed in subsequent reports.

TABLE 228

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Fremont Ford Bridge to Gravelly Ford)
November 1956 through October 1957

Water User	Mile and Bank @	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct		General	Rice
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5																
Stevinson Corporation	135.7R	1-14"	6				1	177	32	6	22	36	33		313	a 305	
Erreca Farms	161.4R	1-8"						25	12	24	3	14	11		b 89	36	
Erreca Farms	161.9R	1-18"					48	203	71	130	245	305			1002	b c 666	
Dye Farms	d 162.9R	e 1-12"									9	10			19	30	
Dye Farms	163.2R	e 1-12" f 1-12"					256	77	117	286	312	326	26		1400	c 445	
D. L. McNamara	g 163.6R	1-16"					12	13		10	34	4		60	133	c 60	
D. L. McNamara (h)	** 168.4R	1-10"					7	14	4	4	8				37	27	
Newhall Land and Farming Company #1 (i)	** (0.39R)	1-12"			96	46	109	300	125	27	128	2			833	c 1122	
Newhall Land and Farming Company #2 (i)	** (4.30R)	1-10"								66	133	132			331	c 87	
Newhall Land and Farming Company #3 (f)	** (5.12R)	1-10"					4	36	16	73	66	10			205	c 79	
Newhall Land and Farming Company #4 (i)	** (6.07R)	1-6"						53	106	106	106	106			477	c 349	
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	186.0																
San Luis Canal Company (j)	186.6L	Gravity	3451	1700	331	5008	13301	15088	16048	24488	28699	26382	19248	6581	160325	43931	60
--FIREBAUGH BRIDGE--	198.4																
Luke Zaninovich (k)	206.02R	1-4"					8			2	14	13			37	16	
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--	206.2																
--MENDOTA DAM--	208.63																
Central California Irrigation District (m)	208.8L	Gravity	12438	3662	3781	15386	39951	69031	67894	83895	89175	83161	45470	21677	535521	140865	7432
--FRESNO SLOUGH--	209.0L																
--DELTA-MENDOTA CANAL--	8(0.2L)																
Firebaugh Canal Company	8(0.4L)	2-24" 2-36" 2-42"	849	2463	1089	1123	5175	8449	10088	12827	13670	12365	3913	2706	74717	19189	3909
M. Jensen (n)	8(1.9R)									20	75	52	8	20	175	180	
Paul Matheson (i)	8(3.2L)	1-10" 1-12"					6	145	329	280	311	292	48	368	1779	677	
Grace Brothers (i)	8(3.4L)	1-16"			150	80	166	192	356	361	414	389	232	180	2520	1236	
State of California Mendota Waterfowl Management (n)	8(6.45-8.20)		240				171	266	670	1089	1922	2549	3075	3110	13092		
Fresno Slough Water Association (n)	8(9.20-10.50)					79	647	188	244	236	585	214	407	97	2697	1009	25
--JAMES BYPASS--	8(11.80R)																
Traction Ranch (n)	88(0.75)					95	540	282	2	377	333	373	218	42	2262	1922	
Reclamation District 1606 (n)	88(1.50)					2	40	4	10	77	69	40	26	8	276	95	
James Irrigation District (n)	88(4.4)						3176	1636	460	968	4538	4413	1474		16665	18725	584
Tranquillity Irrigation District (n)	8(12.00-13.75)		180			232	4806	1486	2585	6686	5560	4816	1575	407	28333	7505	1161
Melvin D. Hughes (n)	8(12.20)						32			22	38	18			110	43	
--LONE WILLOW SLOUGH--	219.8R																
Columbia Canal Company	219.8R	p	2053	980		1751	5754	6530	7954	8509	9084	8521	6678	3072	p 60886	12837	1443
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.83																
United Farms Company	225.2L	f 1-4" 1-12"									44	32			76	c 12	
Rose Campbell	232.55L	1-4"							PLANT REMOVED								
--HEAD OF GRAVELLY FORD CANAL--	232.8R																
FREMONT FORD BRIDGE TO GRAVELLY FORD Totals			19420	8800	5450	23800	74210	104 00	107100	140600	155600	144600	8440	38330	904300	251448	14614
Average cubic feet per second			323	143	89	429	1207	1751	1742	2362	2530	2351	1386	623	1249		
Monthly use in per cent of seasonal			2.1	1.0	0.6	2.6	8.2	11.5	11.8	15.5	17.2	16.0	9.1	4.2			

* Mileage along San Joaquin River from its mouth 44 miles below Antioch.
** Plant is located on Sand Slough which diverts from San Joaquin River at Mile 168.4R. Distance from San Joaquin River and bank shown in parentheses.
8 Plant is located on Fresno Slough which diverts from San Joaquin River at Mile 209.0L. Distance from San Joaquin River and bank shown in parentheses.
88 Plant is located on James Bypass which diverts from Fresno Slough at Mile 8(11.80R). Distance from Fresno Slough and bank shown in parentheses.

a This acreage also received an undetermined amount of controlled drainage and East Side Canal Company water.
b 324 acres listed for Mile 161.9R also received an undetermined amount of water from Mile 161.4R.
c This acreage also received an undetermined amount of well water.
d Previously listed as Mile 162.8R.
e This is a portable unit which diverts water at Miles 162.9R and 163.2R.
f New installation in 1957.
g Plant is located on East Side Canal which joins the San Joaquin River at this mile.

TABLE 228

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Fremont Ford Bridge to Gravelly Ford) (contd.)
November 1956 through October 1957

h Temporary installation for 1957.
i Installed prior to 1957. Not previously listed.
j Point of diversion is at head of Temple Slough.
k Formerly listed as Antone Zaninovich.

m Main canal, also includes outside canal and Helm ditch.
n Data furnished by U.S. Bureau of Reclamation.
p Includes diversion by Mendota Pool pumps, Mowry pumps and gravity diversion in Lone Willow Slough.

TABLE 229

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Gravelly Ford to Friant Dam)
November 1956 through October 1957

Water User	Mile and Bank @	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
W. A. Kochergen	233.66R	1-6"	52				29	33		36	19	55	38		262	a 66	
W. A. Kochergen	234.00R	1-6"	PLANT REMOVED														
A. J. Wheeler (b)	##235.02	1-2½"											1		1	1	
Ernest O. Hart	235.03L	1-3"	1			2	2	2	2	4	3	1	2	1	20	1	
Dewey W. Johnson	235.33R	c 1-4" 1-5"	14			2	5	9	34	70	74	35	25	5	273	d 96	
Santos Carrasco	236.28R	1-6"	NO DIVERSION														
--GAGINO STATION - SAN JOAQUIN RIVER NEAR BIOLA--	236.40R																
Smith, McInturf and Hansen	237.33L	1-8"						112	83		46	7			248	e,f 235	
J. A. Peterson	237.98R	1-6"			7			19	23	37	28	4	5	15	138	81	
--SKAGGS BRIDGE--	238.18																
--BOWSER RECORDING GAGE--	242.41L																
A. and M. Overgaard	243.84R	1-5" 1-6"						34	62	119	132	52			399	g 145	
Y. H. Donny	244.86L	1-7"	6					31	3	12	15	16	18	7	108	f 131	
C. L. Hammar (h)	245.36R	1-6"									1			9	10	d,1 56	
Mrs. George Mordecai	245.63R	1-1½"	NO DIVERSION														
Y. H. Donny #2	245.81L	1-6"									2		2		4	f 15	
George Meisner (j)	246.15L	1-5"	PLANT REMOVED														
George Meisner (j)	246.34L	1-8"	PLANT REMOVED														
--U. S. 99 HIGHWAY BRIDGE--	247.38																
O. Oberti and Sons	247.64R	1-5"						5	7	8	27	22	25	9	103	d 129	
O. Oberti and Sons	247.65R	1-4"	PLANT REMOVED														
San Joaquin Light and Power Company	247.82R	1-3"	PLANT REMOVED														
--HERNDON RECORDING GAGE--	248.31L																
Mrs. Carl R. McKinley	248.51L	1-3"	1					10	10	13	13	7			54	k 16	
--SANTA FE RAILROAD BRIDGE--	249.23																
Miller Brothers	251.46L	1-6"								19					19	12	
J. W. Carrell #1	253.00L	1-8"						97	79	118	117	120	111	19	661	104	
J. W. Carrell #2	253.30L	1-4"	8	1				62	23	85	67	66	40		352	22	
A. L. Boucher (m)	253.79R	1-6"	1		11		6	4	4	30	16	11			83	48	
L. L. Howard	254.32R	2-6"	NO DIVERSION														
Sycamore Island Stock Ranch #7	##254.90	c 2-4"						15			15	29	15	3	77	a 13	
L. L. Howard	254.93R	1-6"						88		66	128	118	8		408	58	
Orsiner, Wright and Oreiner (n)	254.98L	1-7"	NO DIVERSION														
Sycamore Island Stock Ranch #6	##255.00	1-3"	1	2	1	3	2	5	4	7	18	13	5	3	64	30	
Fresno State College	255.05L	1-4"	PLANT REMOVED														
Sycamore Island Stock Ranch #5	255.34R	1-6"					26	33	17	52	78	62	42		310	p 65	
Sycamore Island Stock Ranch #4	##255.84	1-5"						1	59	23	60	81	32	48	304	41	
Sycamore Island Stock Ranch #3	255.93R	1-4"					7	27	1	10	27	30	12		114	q 28	
Sycamore Island Stock Ranch #2	256.52R	1-6"					31	67	62	62	135	110	47	8	q 522	r 72	
Emma Pappas	257.10L	1-8"								29	99	55	12	27	222	162	
Emma Pappas	257.70L	1-12"					8	10		8	48	41	1		116	61	
L. D. Cobb	258.08R	1-6" 1-7"					9	26	51	227	203	73	48	4	641	158	
--STATE HIGHWAY 41 BRIDGE--	258.33																
R. J. Curtis	258.39L	1-4" 1-7"	9		2			14	23	44	56	70	18		236	64	
W. E. Roberts #1	258.80L	1-6"	4	3	2	2	4	21	7	41	29	39	29	9	190	t 138	
W. E. Roberts #2	258.90L	1-12"						43	11	114	78	90	51	390	3	t	
J. E. Cobb	259.39R	2-6"			2	11	22	17	20	64	113	88	17		354	102	
--SITE OF OLD LANES BRIDGE--	259.78																

TABLE 229

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Gravelly Ford to Friant Dam) (contd.)
November 1956 through October 1957

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet	Acreage Irrigated	
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct		General	Rice
Marjorie E. Sims	259.80L	1-6"					7	12	46	67	55	31	14	5	237	38	
J. E. Cobb #3	260.40R	1-6"					22	41	42	79	96	99	62	27	468	110	
Duane M. Folsom	261.10L	1-2½"	NO DIVERSION														
R. C. Arnold	261.53R	1-4" 1-5"	14				31	44	16	31	58	85	36	27	342	u 416	
E. G. Rank (v)	**261.60	1-3"										4			w 4		
Duane M. Folsom	261.60L	1-3½"	NO DIVERSION														
Duane M. Folsom	261.70L	1-6"	7				8	16	48	108	204	211	115	5	722	x 163	
E. G. Rank	**261.75	1-5"						19	32	37	13	14	22	15	152	w 20	
R. C. Arnold (y)	261.78R	1-2½"										2	3	2	7	2	
E. G. Rank #2	**261.90	1-5"								13	19	24	6		62	30	
E. G. Rank	**262.07	1-6"								16	26	31	9		82	38	
Duane M. Folsom	262.27L	1-8"	4	17				60	43	74	38				236	z 80	
H. G. Rank Jr. (y)	262.32L	1-5"									33	79	48	19	z 179	25	
A. Brown	262.43L	1-5"						15	17	36	37	34	18	8	165	70	
E. G. Rank	262.48L	1-5"					14	11	1	16	25	29	10		106	aa 63	
Dale McCoon	262.60R	1-6"							39	74	37	59	72	20	ab 301	a 28	
--SAMPLES RANCH RECORDING GAGE--	262.66																
W. H. Rohde	262.66L	1-7"					23		7	66	94	61	14		265	112	
Dale McCoon #2	263.40R	1-7"						44	147	170	230	200	142	73	1006	ab 87	
Dale McCoon	263.48R	1-6"						35	35	74	103	81	44	26	398	55	
H. K. Jensen	263.76R	1-5"		19			9	88	76	108	121	117	86	36	660	75	
R. W. Ball #5 (v)	263.94L	1-3"										3			ac 3		
Pacific Coast Aggregate Company	264.00L	1-6" 1-8"	NO DIVERSION														
H. W. Ball #1	ad 264.00L	1-5"													ae		
H. W. Ball #2	ad 264.00L	1-5"													ae		
H. W. Ball #3	ad 264.00L	1-3"	2												ae 2		
H. W. Ball #4	264.08L	1-6"						17		16	33	41	73	29	209	ac 24	
Ike O. Ball	264.60R	1-6"		4			17	53	50	117	121	129	100	45	636	35	
W. F. Ball	264.83L	1-4" 1-5"	12					25	35	56	90	75	55	24	372	34	
V. O. Roullard	265.36L	1-6"					4	17	23	48	50	42	19		203	50	
V. O. Roullard	265.40L	1-5"		3				5	3	23	41	34	14	3	126	17	
Virgil Durando	267.56L	1-7"	2	10	4	2	6	35	14	74	197	144	42	12	542	180	
--GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	268.13L																
--FRIANT BRIDGE--	268.88																
Wishon-Watson Company	269.18R	1-5"					1		10	1	21	20	45		98	40	
--COTTONWOOD CREEK--	269.53R																
--FRIANT DAM--	269.63																
GRAVELLY FORD TO FRIANT DAM Totals Average cubic feet per second Monthly use in per cent of seasonal			140 2 1.0	60 1 0.4	30 0 0.2	20 0 0.1	290 5 2.1	1320 22 9.3	1270 21 8.9	2600 44 18.2	3390 55 23.8	2950 48 20.6	1650 28 11.6	550 9 3.8	14270 20	3942	0

* Mileage along San Joaquin River from its mouth 4½ miles below Antioch.
** Point of diversion and place of use is on island in midstream.
a This acreage was double cropped.
b Installed prior to 1957. Not previously listed.
c One 4" unit was a temporary installation for 1957.
d This acreage also received an undetermined amount of well water.
e Includes 5 acres of Morello Winery lands.
f This acreage also received an undetermined amount of Fresno Irrigation District water.
g Of this acreage, 39 was double cropped. This acreage also received an undetermined amount of Madera Irrigation District water.
h Previously listed as C. L. Hammer.
i Includes 9 acres which also received an undetermined amount of Madera Irrigation District water.
j Formerly listed as Jasper Ranch.
k Includes 2 acres which also received an undetermined amount of well water.
m Formerly listed as Fred Russell.
n Formerly listed as Greiner and Wright.
p Of this acreage, 45 was double cropped.
q 23 acres listed for Mile 255.93R also received an undetermined amount of water from Mile 256.52R.
r Of this acreage, 30 was double cropped.
s Includes 35 acres of J. H. Cobb lands. Of this acreage, 35 was double cropped.
t Combined acreage for Miles 258.80L and 258.90L.
u Of this acreage, 26 was double cropped.
v Temporary installation for 1957.
w 17 acres listed for Mile **261.75 also received 4 acre-feet of water from Mile **261.60 and were double cropped.
x Includes 34 acres which also received an undetermined amount of well water.
y New installation in 1957.
z 15 acres listed for Mile 262.27L also received an undetermined amount of water from Mile 262.32L.
aa Includes 38 acres which also received an undetermined amount of well water.
ab 20 acres listed for Mile 263.40R also received an undetermined amount of water from Mile 262.60R.
ac 15 acres listed for Mile 264.08L also received 3 acre-feet from Mile 263.94L.
ad Plant is located on pond.
ae San Joaquin River water was not diverted into pond in 1957.

TABLE 230

DIVERSIONS AND ACREAOES IRRIOATED - MERCED RIVER
November 1956 through October 1957
(Nov. 1956 through Peb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--HILLS FERRY BRIDGE--													
Stevinson Water District #1	1.8R	1-16"		172		95	176	138	176		757	a 325	
Stevinson Water District #2	3.8R	1-20"		321	479	569	724	623	570	122	b 3408	c 775	
Milton Gordon	4.3L	1-10"		9	10	19	11		15	3	d 67	56	
--GAGING STATION - MERCED RIVER NEAR STEVINSON--	4.6												
Salvatore De Angelia	4.8L	1-12"		11	10	27	18	19	15		e 100	33	
Maria De Angelia	5.8L	1-12"		10	39	45	84	60	13		f 251	84	
Lydell Peck	6.1L	1-15"			64	83	248	420	59		g 874	h 284	
Stevinson Water District #3	7.7L	1-20"	144	671	57	171	375	331	83	3	i 1835	j 1193	
Manuel Clemintino	8.5L	1-12"		22	12	20	37	25	19	1	136	k 80	
Manuel Clemintino	8.9L	1-12"		11	43	91	71	60	58	1	335	116	
Samuel B. McCullagh	9.4L	1-12"		59	82	156	215	191	110	43	856	m 215	
J. R. Jacinto	9.6L	1-12"	34	86	55	82	91	109	45	10	n 512	p 109	
R. W. Adams, I. B. Silva, L. Alves and A. Mattos	10.35L	1-10"	18	194	186	315	346	265	226	34	q 1584	r 400	
John Vierra	10.8R	1-3"		11	10	17	19	21	19	11	s 108	49	
Manuel Freitas	10.9L	1-12"		113	49	89	101	67	73		t 492	u 188	
R. E. Prusso and John Vierra	10.9L	1-5" 1-8" 1-12"	46	8	123	84	155	128	75		v 619	w 206	
M. Turner	11.25R				1	1	1	1	1	1	6	5	
Tony Vierra	11.6L	1-5" 1-8"	9	108	136	145	174	107	87		x 766	127	
E. and J. Gallo Winery Ranch	11.6L	1-12"	10	20	24	57	42	28			y 181	z	
--MILLIKEN BRIDGE--	11.65												
M. Turner	11.7R	1-4"				NO DIVERSION							
E. and J. Gallo Winery Ranch	12.35L	1-10"		20	7	22	75	35		37	196	z	
Soren Husman	12.4L	1-6"		23	17	18	34	24	16		132	aa 43	
M. Turner	12.8R	1-12"		15		8	9	13		1	46	ab 30	
E. and J. Gallo Winery Ranch	12.85L	1-12"	24	72	20	229	260	94		124	ac 823	z 409	
Melvin Schmidt	13.1L	1-4"				PLANT REMOVED							
M. Turner	13.4R	1-4"				NO DIVERSION							
Anthony C. Pires	14.3R	1-6"		8	3	11	7	11	9		49	35	
J. M. Souza	14.5L	1-10"		35	28	74	64	54	58		313	ad 87	
Anthony C. Pires	14.8R	1-6"	3	4	4	6	9	9	5		40	18	
C. Koehn	14.8L	1-5"				NO DIVERSION							
Anthony C. Pires	15.4R	1-6"				21	19	12			52	12	
A. H. Stafford	16.2R	1-7"		8	16	14	10	7	12	2	69	26	
E. and J. Gallo Winery Ranch	16.5L	1-10"	6	48	28	139	102	82		68	ae 473	af 150	
--RECORDING GAGE--													
C. J. Carpenter	17.05L	1-7"	7	6	20	25	23	30	22		ag 133	ah 75	
J. H. Thomas	17.7L	1-5"				PLANT REMOVED							
S. Magsalay	18.1R	1-6"		10	11	9	6	7	3		ai 46	19	
J. H. Thomas	18.4L	1-6"		19	24	41	42	39	3	3	ai 198	aj 47	
C. P. Hockett	18.5L	1-4"		1	2	13	9	12	7	4	ak 48	am 24	
H. L. Waters and W. Odell	18.6R	1-5"			11	7	7				25	12	
H. L. Waters and W. Odell	19.3R	1-6"		11	8	7	9	2	6		43	24	
S. P. Magsalay	19.8L	1-6"			3	5	4	2	2		16	19	
J. Francis	19.8L	1-6"		4	1	10	5	3	9	1	33	18	
E. Schmidt	20.3R	1-6"	1	7	10		22	17	5		an 62	ap 31	
J. E. Gallo	20.4L	1-7"		30	3	37	30	46			aq 146	116	
G. L. Carlson	20.6R	1-6"				13	16	22	7		58	35	
--U. S. HIGHWAY 99 BRIDGE--	21.04												
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.05												
Gallo Cattle Company (ar)	21.05R	1-6"		18		15	6	35	25		99	ab 26	
Gallo Cattle Company (ar)	22.2R	1-10" 1-16"	43	137	107	275	385	497	272	24	1740	as 245	
Gallo Cattle Company (ar)	22.8R	1-12" 1-15"	31	78	47	169	221	292	183	7	1028	as 183	

TABLE 230

DIVERSIONS AND ACREAGES IRRIGATED - MERCED RIVER (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
C. L. Hart (at)	23.0L	1-3" 1-4"				NO DIVERSION							
C. L. Hart (au)	23.1L	1-3" 1-4"			3	1		1			5	6	
C. L. Hart (au)	23.4L	1-3" 1-4"				NO DIVERSION							
C. H. Pasaadori, Jr.	24.2R	1-6"		14		34	20	30	12		av 110	aw 38	
Arthur Dollinger	24.5L	1-6"				22	12	21	9		64	ax 35	
T. Nishihara	24.6R	1-6"				PLANT REMOVED							
T. Nishihara	25.0R	1-5"			20	34	18	16	11		99	34	
T. Nishihara	25.5R	1-6"			6	33	40	26	27		132	65	
Merced River Farms Association	26.3R	1-8"	5	39	36	86	99	82	55	9	411	81	
W. C. Magneson	26.55R	1-5" 1-6"		10	9	36	25	29	16		125	30	
Joseph Vierra	26.8L	1-10"				NO DIVERSION							
--SANTA FE RAILROAD BRIDGE--	27.05												
W. C. Magneson	27.5R	1-10"		21	32	78	96	116	72	24	439	101	
--GAGING STATION - MERCED RIVER AT CRESSEY BRIDGE--	27.6												
T. Nishihara	27.8R	1-6"		1	7	3	12	7	6		ay 36	25	
Al and Harriet Wentzel	27.85L	1-1½"		3	2	3	3		3		ak 14	13	
M. Uyekubo	28.1R	1-5"		2		9	7	4	1	1	az 24	19	
John Faria	28.4R	1-5"		7	6	10	8	9	4	3	47	18	
J. Campadonica	28.6R	1-6"				5	2	4	9		20	18	
Oliver Alves	28.6R	1-8"				4	66	69	51		190	76	
Anthony Demchille	29.1R	1-7"				40	24	30	18		112	46	
Anthony Demchille	29.75R	1-6"				8	20	2	11		41	ba 31	
Manuel Silva (low lift)	29.9R	1-6"		20	32	28	137	114			bb 331	60	
Manuel Silva (high lift)	29.9R	1-10"	19	13	19	88	97				236	70	
Frances I. Rose	30.7L	1-6"		10	9	12	22	17	12		82	50	
Manuel Silva	30.95R	1-12"		105	5	96	276	244			bc 726	135	
W. P. Bettencourt	31.1L	1-8"		22	57	39	119	83	13		333	114	
Manuel Silva	31.5R	1-6"			8	45	77	89	79		298	65	
Jack Pretzer	31.6R	1-6"				NO DIVERSION							
P. Hilarides (bd)	32.3L	be 1-12"		21	8	86	106	155	104	63	bf 543		
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	32.52												
Albert Chavas	33.1R	1-6"			25	96	150	83	1	43	398	bg 114	
Evan Spiva	33.2L	1-4"				PLANT REMOVED							
Jack Pretzer	33.55R	1-6"				9	56				65	80	
W. F. Bettencourt, P. Hilarides and Cowel Land and Cement Company (bh)	36.9L	Gravity		50	887	1199	972	798	847	613	5366	bf 705 bi	
Reinero Brothers	39.2L	1-6"				NO DIVERSION							
Ratzlaff Brothers	40.2L	1-4"		28	26	53	54	53	24		238	bj 90	
--GAGING STATION - MERCED RIVER BELOW SNELLING--	42.1												
MERCED RIVER Totals Average cubic feet per second Monthly use in per cent of seasonal			400 7 1.4	2740 46 9.4	2950 48 10.1	5390 91 18.4	6780 110 23.2	6020 98 20.6	3700 62 12.6	1260 20 4.3	29240 60	8048	0

TABLE 230

DIVERSIONS AND ACREAGES IRRIGATED - MERCED RIVER (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

a Of this acreage, 270 was double cropped
b Additional acre-feet diverted: December 2 and February 2.
c Of this acreage, 155 was double cropped.
d Additional acre-feet diverted: November 7.
e Additional acre-feet diverted: November 5.
f Additional acre-feet diverted: November 27.
g Additional acre-feet diverted: November 6 and December 6.
h Of this acreage, 271 was double cropped.
i Additional acre-feet diverted: November 37 and December 4.
j Of this acreage, 35 was double cropped. Includes 1075 acrea which also received an undetermined amount of East Side Canal water.
k Of this acreage, 20 waa double cropped.
m Of this acreage, 30 was double cropped.
n Additional acre-feet diverted: November 15.
p Of this acreage, 34 was double cropped.
q Additional acre-feet diverted: November 15, December 2 and February 1.
r Of this acreage, 101 was double cropped.
s Additional acre-feet diverted: November 2.
t Additional acre-feet diverted: November 19.
u Of this acreage, 86 was double cropped.
v Additional acre-feet diverted: November 45, December 5 and January 4.
w Of this acreage, 120 waa double cropped.
x Additional acre-feet diverted: November 7 and December 9.
y Additional acre-feet diverted: December 28.
z Combined acreage for Miles 11.6L, 12.35L and 12.85L.
aa Of this acreage, 12 was double cropped.
ab This acreage was double cropped.
ac Additional acre-feet diverted: November 204 and December 73.
ad Of this acreage, 29 was double cropped.
ae Additional acre-feet diverted: November 104 and December 129.
af This acreage also received an undetermined amount of well water.
ag Additional acre-feet diverted: November 8 and December 1.
ah Includes 16 acres of McKelvey lands.
ai Additional acre-feet diverted: December 2.
aj Of this acreage, 2 was double cropped.
ak Additional acre-feet diverted: November 1.
am Of this acreage, 18 was double cropped.
an Additional acre-feet diverted: December 4.
ap Of this acreage, 15 waa double cropped.
aq Additional acre-feet diverted: December 1.
ar Formerly listed as A. C. Jorgensen.
as Of this acreage, 58 was double cropped.
at Formerly listed as Helena McConnell.
au Formerly combined with Mile 23.0L.
av Additional acre-feet diverted: November 8 and December 7.
aw Of this acreage, 26 was triple cropped.
ax This acreage was triple cropped.
ay Additional acre-feet diverted: November 3 and December 2.
az Additional acre-feet diverted: January 1 and February 1.
ba Of this acreage, 19 was double cropped.
bb Additional acre-feet diverted: February 25.
bc Additional acre-feet diverted: February 26.
bd Formerly listed as P. Malaria.
be Replaces an 8" unit.
bf 238 acres listed for Mile 36.9L also received 543 acre-feet of water from Mile 32.3L.
bg Of this acreage, 45 was double cropped.
bh Formerly listed as W. F. Bettencourt, P. Malaria and Cowel Land and Cement Company.
bi Of this acreage, 50 was double cropped.
bj This acreage also received an undetermined amount of Merced Irrigation District Water.

TABLE 231

DIVERSIONS AND ACREAGES IRRIGATED - TUOLUMNE RIVER
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
E. T. Mape (a)	0.4R	1-4"				NO DIVERSION							
E. T. Mape (a)	1.3R	1-20"	12	499	95	198	198	274	121	54	b 1451	c 2828	
J. V. Steenstrup Estate	1.9L	1-12"	34	195			282	284	58		d 853	e 115	
J. DeSouza and J. B. Silva	2.2R	1-6"		39	13	41	29	39	14		175	f 63	
J. V. Steenstrup Estate	2.9L	1-12"	55	291		221	157	199			923	g 305	
--GAGING STATION - TUOLUMNE RIVER AT TUOLUMNE CITY--	3.35												
Russell Murray	3.4L	1-5"		23	18	20	8	16	21		106	18	
Bancroft Fruit Farms	4.1R	1-12"	1	20	20	27	47	35	20	1	h 171	77	
Bancroft Fruit Farms	5.0R	1-10"	6	21	44	47	63	40	37	2	i 260	169	
Western Farms	6.3L	1-16"	20	21		47	17	15	26		h 146	j 87	
R. L. Maxfield	6.9R	1-7"	1	10	25	25	51	53	46		k 211	m 44	
Eugene Boone, Galen Hartwich and Tony Lemos	7.1R	1-10"	29	111	51	103	79	90	59	4	526	n 162	
W. F. Duffy	7.2R	1-7"	13	40	13	40	13	27	28	25	199	37	
Ella T. Rahilly	7.8L	1-10"		34	31	26	55	32	56		234	p 43	
W. F. Duffy	8.4R	1-10"		101	103	84	73	107	59	60	587	120	
Ella T. Rahilly	8.5L	1-10"		55	60	41	67	57	35	16	331	78	
A. C. Watkins	9.4L	1-12"				269	402	74			745	80	
McClure Ranches	9.7R	1-12"		134	138	233	184	171	54		914	47	
Tuolumne Cooperative Farms, Inc.	10.2R	1-14"		126	80	108	131	106	66	26	643	q 101	
G. B. and L. D. Podesto	15.75R	1-5"		5	4	6	5	5			25	24	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.8												
--U. S. HIGHWAY 99 BRIDGE--	16.05												
--GAGING STATION - TUOLUMNE RIVER AT MODESTO--	16.05												
--DRY CREEK--	16.5R												
Jack Cardella	20.3R	1-10"	3	37	43	57	57	54	51	12	r 314	s 70	
Charles N. Whitmore	20.45L	1-6"					6				6	t 20	
H. W. Ortman	20.5R	1-12"		38			45	10	11	27	131	u 75	
Henry Codoni (v)	20.85R	1-4"	2	4	5	7	10	11	8		47	6	
--SANTA FE RAILROAD BRIDGE--	21.6												
C. R. Trent	23.5R	1-1½" 1-6"		3	1	4	5	3	16		32	w 35	
C. S. Blakesley	23.6R	1-6"	1	9	4	9	13	12	4	1	x 53	16	

TABLE 231

DIVERSIONS AND ACREAGES IRRIGATED - TUOLUMNE RIVER (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
L. B. and J. H. Fox	25.8L	1-3"				16	26	19	24		85	e 76	
H. W. Low	26.6L	1-4"		7	12	16	22	21	7	2	87	40	
H. W. Low	27.0L	1-4"		12	15	24	28	23			102	50	
Paul J. Ferguson	27.3R	1-10"			17	14	19	20			70	y 19	
B. and L. Ranch	27.9R	1-12"	4	13	8	11	19	15	9		79	40	
Octavia McEwen	28.1R	1-4"		1	2	3	5	5	2		18	z 30	
Ronald R. Painter	28.3R	aa 1-1½" 1-7"			3	10	5	5	1		24	28	
Michel Investment Company	28.8R	1-8"		97	39	83	93	85	52	3	452	119	
E. B. and D. V. Butterfield	28.9R	1-10"				20	10	18			48	60	
Hugh Merriam	29.1R	1-8"			21	3	13	27			64	35	
J. W. and Lola May Short	29.2L	1-7"				NO DIVERSION							
Charles Fairbairn	29.3R	1-6"		31		33	28	28	11		131	67	
J. W. and Lola May Short (v)	29.8L	1-10"			17	33	28	43	29	21	171	46	
Firpo Ranch	30.2L	1-10"		41	39	79	80	62	39	33	373	86	
W. C. Chase	30.4R	1-4"			1	1	2	1	1		6	4	
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	31.5												
--GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE--	31.7												
A. G. Laughlin	34.2R	1-6"				3	2		1	4	10	16	
Donald Ketcham	38.4R	1-1½"		5	9	16	13	17	10	6	76	28	
A. E. Ketcham	39.4R	1-8"		18	42	77	66	82	38		ab 323	103	
George H. Sawyer	39.8L	1-6"		14	16	22	42	40	14	1	149	t,ac 352	
--GAGING STATION - TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE--	39.9												
George H. Sawyer	40.8L	1-14"		37	37	57	113	111	38	2	395	ac	
William J. Silva	43.3L	1-6"				NO DIVERSION							
Curtner Zanker	45.7L	1-10"	5	15	63	70	88	84	48		373	98	
Dolling Brothers	46.3R	1-8"		41	47	73	92	83	46	15	397	50	
O. F. Fine	46.7L	1-6"			17	15	19	18	11	1	81	14	
--GAGING STATION - TUOLUMNE RIVER AT LA GRANGE--	50.5												
TUOLUMNE RIVER													
Totals			190	2150	1150	2290	2810	2520	1170	320	12600	5981	0
Average cubic feet per second			3	36	19	39	46	41	20	5	26		
Monthly use in per cent of seasonal			1.5	17.0	9.2	18.2	22.3	20.0	9.3	2.5			

a Previously listed as E. T. Mapes.
b Additional acre-feet diverted: November 223, December 201, January 19, and February 27.
c Of this acreage, 303 was double cropped. This acreage also received an undetermined amount of controlled drainage water from Modesto Irrigation District.
d Additional acre-feet diverted: February 22.
e This acreage was double cropped.
f Of this acreage, 31 was double cropped.
g Of this acreage, 130 was double cropped.
h Additional acre-feet diverted: February 12.
i Additional acre-feet diverted: November 1, December 5 and February 2.
j Of this acreage, 67 was double cropped.
k Additional acre-feet diverted: December 9 and February 3.
m Of this acreage, 12 was double cropped.
n Of this acreage, 32 was double cropped.
p Of this acreage, 15 was double cropped.
q Of this acreage, 22 was double cropped.
r Additional acre-feet diverted: December 2.
s This acreage also received an undetermined amount of drain water from Empire Sewer Farm.
t This acreage also received an undetermined amount of well water.
u Of this acreage, 25 was double cropped.
v New installation in 1957.
w Includes 15 acres of A. L. Leib lands which was triple cropped.
x Additional acre-feet diverted: December 1.
y Of this acreage, 9 was double cropped.
z This acreage also received an undetermined amount of slough water.
aa The 1½" unit was a temporary installation during 1957.
ab Additional acre-feet diverted: December 23 and January 6.
ac Combined acreage for Miles 39.8L and 40.8L.

TABLE 232

DIVERSIONS AND ACREAGES IRRIGATED - DRY CREEK
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Modesto and Arata	0.4R	1-6"				28	27	13	2		70	a 125	
--MODESTO - EMPIRE TRACTION COMPANY RAILROAD BRIDGE--	0.7												
--STATE HIGHWAY 132 BRIDGE (YOSEMITE BOULEVARD)--	0.8												

TABLE 232

DIVERSIONS AND ACREAGES IRRIGATED - DRY CREEK (contd.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--LA LOMA BOULEVARD BRIDGE--	1.2												
Henry LaBarberg (b)	5.0L	1-3"		2	2	3	3	2	2		14	3	
--GAGING STATION - DRY CREEK NEAR MODESTO--	5.4												
--CLAUSS ROAD BRIDGE--	5.4												
--SANTA FE RAILROAD BRIDGE--	6.4												
--CHURCH STREET BRIDGE--	7.2												
--WELLSFORD ROAD BRIDGE--	8.7												
Charles J. and Frances E. Carroll	9.7R	1-1½"			1	2	1	1	1		6	3	
K. D. Weaver	10.4R	1-6"				NO DIVERSION							
Roy Brant	10.6R	1-5"				NO DIVERSION							
--ALBERS ROAD BRIDGE--	11.0												
--MODESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1												
Joe Fagundes Jr.	12.05L	1-6"	7	9	7	16	16	10	2		67	c 20	
Irene Lucksinger	12.1R	1-6"				5		4			9	12	
Edward Johnson	12.6R	1-6"		9		7	10	19	24		69	d,e 100	
Irene Lucksinger	12.7R	1-6"	1	4	1	17	5	4	7	3	f 42	d 39	
Irene Lucksinger	13.4L	1-7"				NO DIVERSION							
Earl R. Petersen	14.4L	1-6"		2	1	3		2			8	18	
Joe Fagundes	14.7R	1-10"	8	79	116	117	142	149	96	34	741	100	
H. H. French	17.2R	1-8"		20	5	13	9		18	2	67	20	
--OAKDALE - WATERFORD HIGHWAY BRIDGE--	17.4												
DRY CREEK													
Totals			20	130	130	210	210	200	150	40	1090	440	0
Average cubic feet per second			0	2	2	4	3	3	3	1	2		
Monthly use in per cent of seasonal			1.4	11.4	12.2	19.3	19.5	18.7	13.9	3.6			

a This acreage also received an undetermined amount of controlled drainage water from Modesto Irrigation District.
b Formerly listed as James L. Melrose.
c This acreage also received an undetermined amount of Modesto Irrigation District water.
d This acreage also received an undetermined amount of Oakdale Irrigation District water.
e Of this acreage, 30 was triple cropped and 70 double cropped.
f Additional acre-feet diverted: December 1.

TABLE 233

DIVERSIONS AND ACREAGES IRRIGATED - STANISLAUS RIVER
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Roy Moresco	0.3R	1-6"	10	6		15	31	5			67	31	
E. W. Hawkins	0.9R	1-6"			25	27	27	24	5		a 108	34	
--GAGING STATION - STANISLAUS RIVER NEAR MOUTH--	1.9												
A. J. Chisholm and C. M. Carroll	1.9R	1-16"		40	76	61	76	112			365	75	
C. C. Angyal	2.4R	1-18"	134	255	66	309	334	304	113		b 1515	c 290	
Overton Ranch (Koetitz and Faith Ranch) (d)	3.4L	2-12"	328	504	453	484	568	515	401	89	3342	e,f 931	
Faith Ranch (g)	3.4L	1-16"		65	262	256	336	369	266	50	f 1604		
Reclamation District 2064	4.0R	1-14" 1-16" 2-20"	345	1557	1247	2054	1983	1824	1224	262	h 10496	i 1969	
Reclamation District 2075	4.05R	2-16" 1-20"	849	2190	2192	3349	3091	3062	2414	347	j 17494	k 2991	
Louis W. Pelucca	4.8L	1-14"				15	68	36			119	49	
Henry Pelucca	5.5L	1-16"		99	126	101	84	159			569	m 111	
J. W. Updike	5.8L	1-12"			4	4	7	8			23	15	
C. C. Updike	6.4L	1-12"				18	64		37		119	100	
D. J. Macedo	8.4R	1-16"		258	162	376	402	415	242	68	n 1923	p 445	
N. E. Cannon	8.7R	1-10"	95	175	256	298	347	314	180	20	q 1685	r 260	

TABLE 233

DIVERSIONS AND ACREAGES IRRIGATED - STANISLAUS RIVER (cont.)
November 1956 through October 1957
(Nov. 1956 through Feb. 1957 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet								Total Diversion Mar.-Oct. Acre Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept	Oct		General	Rice
D. F. Koetitz	9.4L	1-10"	27	154	285	361	345	353	270	36	s 1831	380	
--RECORDING GAGE--	9.5												
John L. Hertle	9.8L	1-10"	12	30	12	40	31	53	25	1	t 204	u 60	
Nelson Santos (v)	10.0R	1-16"		78		166	141	166	223		774	w 100	
H. E. Van Veldhuizen	12.7R	1-12"		36		14		44			94	w 42	
Dick Bus	12.8L	1-1½"			1	1	1	1	1		5	10	
--GAGING STATION - STANISLAUS RIVER AT RIPON--	15.7L												
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.7												
--U.S. HIGHWAY 99 BRIDGE--	15.7												
A. Girardi	17.7L	1-16"	1	14	107	167	219	193	6		x 707	y 345	
E. J. Freethy	19.0R	1-14"	49	34	59	197	176	171	144	3	833	z 202	
E. J. Freethy	19.5R	1-3" 1-4"				NO DIVERSION							
Allen Ranch	20.9R	1-14"		256	90	157	145	155	60		aa 863	ab 341	
Heath Ranch	21.2L	1-5"		25	30	35	46	55	30		221	w 15	
Philip S. Chinchiolo and Son	22.3R	1-10"				NO DIVERSION							
Ruth M. Ladd	24.2L	1-4"				PLANT REMOVED							
--MODESTO - ESCALON HIGHWAY BRIDGE--	29.5												
F. K. Floden	29.6L	1-10"		18	15	20	26	30		5	114	40	
--SANTA FE RAILROAD BRIDGE--	33.4												
--GAGING STATION - STANISLAUS RIVER AT RIVERBANK--	33.6												
R. P. Barton	36.2R	1-7"		10	9	24	28	17			88	160	
Oakdale Irrigation District (Crawford Pump)	ac 37.7L	1-14"	42	95	47	242	292	240	87	10	x 1055	ad ae 546	
Oakdale Irrigation District (Brady Pump)	ac 39.1L	1-12"	18	16	5	117	127	140	58		x 481	ae af 420	
--OAKDALE - STOCKTON HIGHWAY BRIDGE--	41.2												
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	41.2												
--GAGING STATION - STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.0												
George Moreno	49.2L	1-3"	1	1	3	4		1			ag 10	8	
J. S. Hardin (ah)	50.5L	1-6"		5	17	42	43	39	21	12	ai 179	42	
Walter B. Wilms	52.0L	1-10"		18	28	46	46	44	32	11	ag 225	45	
--KNIGHTS FERRY BRIDGE--	54.5												
STANISLAUS RIVER													
Totals			1910	5940	5580	9000	9080	8850	5840	910	47110	10057	0
Average cubic feet per second			31	100	91	151	148	144	98	15	97		
Monthly use in per cent of seasonal			4.1	12.6	11.8	19.1	19.3	18.8	12.4	1.9			

a Additional acre-feet diverted: November 3 and December 1.
b Additional acre-feet diverted: December 45 and February 114.
c Of this acreage, 68 was double cropped.
d Formerly listed as Overton Ranch (D. F. Koetitz).
e Includes 395 acres which also received an undetermined amount of Modesto Irrigation District drain water.
f 731 acres listed for Mile 3.4L (Koetitz and Faith Ranch) were irrigated by 1604 acre-feet of water from Mile 3.4L (Faith Ranch).
g New installation in 1957.
h Additional acre-feet diverted: November 142 and December 55.
i Of this acreage, 139 was double cropped and 24 received an undetermined amount of controlled drainage water.
j Additional acre-feet diverted: December 214.
k Of this acreage, 123 was double cropped.
m Of this acreage, 20 was double cropped.
n Additional acre-feet diverted: December 24.
p Of this acreage, 81 was double cropped.
q Additional acre-feet diverted: November 3 and February 1.
r Of this acreage, 50 was double cropped.
a Additional acre-feet diverted: December 47.
t Additional acre-feet diverted: January 3.
u Of this acreage, 33 was double cropped.
v Formerly liated aa E. Behlen and F. Upchurch.
w This acreage was double cropped.
x Includes an undetermined amount of water returned to river by spill.
y Includes 237 acres which also received an undetermined amount of Modeato Irrigation District water.
z Of this acreage, 35 waa double cropped.
aa Additional acre-feet diverted: November 10 and December 4.
ab Includes 138 acres which also received an undetermined amount of controlled drainage water and 273 acres which also received an undetermined amount of well water.
ac Oakdale Irrigation District maintained plants during 1957 season at Miles 37.7L and 39.1L to supplement direct gravity supply.
ad Of this acreage, 138 was double cropped.
ae This acreage also received an undetermined amount of water from the diatrict gravity diversion at Mile 58.6.
af Of this acreage, 150 was double cropped.
ag Additional acre-feet diverted: December 2.
ah Previously listed as J. S. Harden.
ai Additional acre-feet diverted: December 9.

TABLE 234

DIVERSIONS AND ACREAGES IRRIDATED - TULE RIVER
November 1956 through October 1957

Water User	Mile and Bank e	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug.	Sept.	Oct.		General	Rice
Pioneer Ditch	0.3R	Gravity	396	422	583	818	488	803	947	998	447		30	254	a 6186	b 2311	
--PIONEER SPILL--	0.3R																
--GAGING STATION - TULE RIVER AT WORTH BRIDGE--	2.2																
Boydston Brothers (c)	2.6L	1-4"			21	7		3	42	55	53	31	5	28	245	b 230	
Campbell-Moreland Ditch	3.2L	Gravity	1003	774	1023	932	487	745	1218	1035	311			156	d 7684	b 1180	
Porter Slough	3.2R		SEE STREAM FLOW TABLES - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)														
Porter Slough	e 3.2R	Gravity				217	962	461	677	552					2869	f,g 770	
Vandalia Ditch	3.9L	Gravity	71	250	289	208	158	104	187	120					1387	h 1388	
--SANTA FE RAILROAD BRIDGE--	5.9																
Poplar Ditch	6.6L	Gravity			1184	1956	2401	1693	3366	3571				230	14401	f,i 5611	
--STATE BIGHWAY 190 BRIDGE--	6.7																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.8																
Hubbs-Miner Ditch	7.2R	Gravity				764	877	1085	1030	1571	36				j 5363	b,k 1961	
--STATE BIGHWAY 65 BRIDGE--	7.4																
Rhodes-Pine Ditch	9.2L	Gravity						NO DIVERSION									
--OLIVE AVENUE BRIDGE--	10.7																
--FRIANT - KERN CANAL CROSSING--	11.3																
Woods-Central Ditch	11.8L	Gravity						NO DIVERSION									
--GAGING STATION - TULE RIVER AT ROCKFORD AVENUE BRIDGE--	12.6																
--HUBBS - MINER SPILL--	12.9R																
Little Pioneer Ditch	15.0L	Gravity						NO DIVERSION									
--OTTLE BRIDGE--	15.2																
TULE RIVER Totals			1470	1450	3100	4900	5370	4890	7470	7900	850	30	40	670	38140	13451	0
Average cubic feet per second			25	24	50	88	87	82	121	133	14	1	1	11	53		
Monthly use in per cent of seasonal			3.9	3.8	8.1	12.8	14.1	12.8	19.6	20.7	2.2	0.1	0.1	1.8			

e Mileage downstream from junction with South Fork Tule River.
a Includes 460 acre-feet of spill to Porter Slough at Mile 3.7R below head as follows: January-April, no record, May 164, June 53, July 3 and October 1.
b This acreage also received an undetermined amount of well water.
c Installed prior to 1957. Not previously listed.
d Includes an undetermined amount of water served to Vandalia Irrigation District and Porterville State Hospital well fields.
e Point of diversion is on Porter Slough 4.5 miles below head.
f This acreage also received an undetermined amount of water from wells and Friant-Kern Canal.
g 60 acres listed for Porter Slough Ditch also received an undetermined amount of water from Pioneer Ditch.
h This acreage also received an undetermined amount of water from wells and Campbell-Moreland Ditch via well fields.
i Includes acreage as follows: Porterville Irrigation District 3053, Lower Tule River Irrigation District 1598 and Saucelito Irrigation District 360.
j Includes 1613 acre-feet of spill to Tule River at Mile 12.9R as follows: February 225, March 271, April 415, May 412 and June 290.
k Includes 1688 acres in the Hubbs-Miner Ditch Company and 273 acres in the Gilliam-McGee Ditch Company.

TABLE 235

EXPORTATIONS FROM SACRAMENTO-SAN JOAQUIN DELTA*
November 1956 through October 1957

Water User	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
						Cache Slough							
City of Vallejo													
Total acre-feet diverted	373	342	406	333	426	678	773	1406	1550	1534	1194	712	9730
Average cubic feet per second	6	6	7	6	7	11	13	24	25	25	20	12	13
Monthly diversion in % of seasonal	3.8	3.5	4.2	3.4	4.4	7.0	7.9	14.5	15.9	15.8	12.3	7.3	
						Old San Joaquin River							
Contra Costa Canal													
Total acre-feet diverted	2633	2869	2997	2698	2543	3854	3917	6095	7388	7507	6655	4308	53480
Average cubic feet per second	44	47	49	49	42	65	64	102	120	122	112	70	74
Monthly diversion in % of seasonal	4.9	5.4	5.6	5.1	4.8	7.3	7.3	11.4	13.8	14.0	12.4	8.1	
Delta-Mendota Canal													
Total acre-feet diverted	3913	3459	1902	55739	107968	136011	130506	188870	213433	187519	111763	63669	1205000
Average cubic feet per second	66	56	31	1004	1756	2286	2122	3174	3471	3050	1878	1036	1664
Monthly diversion in % of seasonal	0.3	0.3	0.2	4.6	8.9	11.3	10.8	15.7	17.7	15.6	9.3	5.3	

* Data furnished by water users and rounded according to criteria applied by the Department.

TABLE 236

DIVERSIONS AND ACREAGES IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS*
November 1956 through October 1957

Water User	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Acreage Irrigated: General	Acreage Irrigated: Rice
San Joaquin River															
Friant-Kern Canal															
Total acre-feet diverted	31159	0	1002	22287	92387	78128	63232	211130	180502	152150	108510	27959	968400	377174	530
Average cubic feet per second	524	0	16	401	1502	1313	1028	3548	2936	2474	1824	455	1338		
Monthly % of seasonal diversion	3.2	0	0.1	2.3	9.5	8.1	6.5	21.8	18.7	15.7	11.2	2.9			
Madera Canal															
Total acre-feet diverted	0	0	24	0	12492	19613	9422	45781	61602	58000	34365	1936	243200	132601	
Average cubic feet per second	0	0	0	0	203	330	153	769	1002	943	578	31	336		
Monthly % of seasonal diversion	0	0	0	0	5.1	8.1	3.9	18.8	25.3	23.9	14.1	0.8			
Merced River															
Merced Irrigation District															
Main Canal	0	0	0	0	11455	79185	81417	100736	100623	85501	64001	2452	525400		
Northside Canal	0	0	0	0	498	2735	3535	4411	4727	4929	3652	815	25300		
Total acre-feet diverted	0	0	0	0	11953	81920	84952	105147	105350	90430	67653	3267	a 550700	b 106211	4257
Average cubic feet per second	0	0	0	0	194	1377	1382	1767	1713	1471	1137	53	761		
Monthly % of seasonal diversion	0	0	0	0	2.2	14.9	15.4	19.1	19.1	16.4	12.3	0.6			
Tuolumne River															
Turlock Irrigation District															
Total acre-feet diverted	22140	5980	7500	7930	18010	84970	72770	101300	105200	87770	77050	10380	c 601000	d 168942	0
Average cubic feet per second	372	97	122	143	293	1428	1183	1702	1711	1427	1295	169	830		
Monthly % of seasonal diversion	3.7	1.0	1.3	1.3	3.0	14.1	12.1	16.9	17.5	14.6	12.8	1.7			
Modesto Irrigation District															
Total acre-feet diverted	10077	167	0	2718	14665	43439	36747	50965	51445	42954	37905	18005	e 309100	f 68251	120
Average cubic feet per second	169	3	0	49	238	730	598	857	837	699	637	293	427		
Monthly % of seasonal diversion	3.3	0.1	0	0.9	4.7	14.0	11.9	16.5	16.6	13.9	12.3	5.8			
Waterford Irrigation District															
Total acre-feet diverted	0	0	0	0	1391	4499	4672	6994	7095	6359	4801	1921	37730	g 6952	0
Average cubic feet per second	0	0	0	0	23	76	76	118	115	103	81	31	52		
Monthly % of seasonal diversion	0	0	0	0	3.7	11.9	12.4	18.5	18.8	16.9	12.7	5.1			
Stanislaus River															
Oakdale Irrigation District															
Northside Canal	0	0	8	34	1993	11045	18165	20185	17430	14968	9086	2708	95620	h 20594	2282
Southside Canal	0	0	0	0	5258	19233	24901	28075	29605	25503	15105	4716	152400	i 34807	353
Total acre-feet diverted	0	0	8	34	7251	30278	43066	48260	47035	40471	24191	7424	248000	j 55401	2635
Average cubic feet per second	0	0	0	1	118	509	700	811	765	658	407	121	343		
Monthly % of seasonal diversion	0	0	0	0	2.9	12.2	17.4	19.5	19.0	16.3	9.7	3.0			
South San Joaquin Irrigation District															
Total acre-feet diverted	0	0	0	0	1947	30880	26625	38875	45616	42203	24903	5593	216600	k 62063	115
Average cubic feet per second	0	0	0	0	32	519	433	653	742	686	419	91	299		
Monthly % of seasonal diversion	0	0	0	0	0.9	14.2	12.3	17.9	21.1	19.5	11.5	2.6			
American River															
Natomas Water Company															
Total acre-feet diverted	1025	1503	1491	1482	1286	1909	1960	2414	2514	2258	1877	1226	20940		
Average cubic feet per second	17	24	24	27	21	32	32	41	41	37	32	20	29		
Monthly % of seasonal diversion	4.9	7.2	7.1	7.1	6.1	9.1	9.4	11.5	12.0	10.8	9.0	5.8			
San Juan Suburban Water District															
Total acre-feet diverted	1045	894	771	595	574	1570	1671	3125	3579	3430	2909	1170	21330		
Average cubic feet per second	18	15	13	11	9	26	27	53	58	56	49	19	29		
Monthly % of seasonal diversion	4.9	4.2	3.6	2.8	2.7	7.4	7.8	14.6	16.8	16.1	13.6	5.5			

* Data furnished by water users and rounded according to criteria applied by the Department.

a An additional 112250 acre-feet of water was pumped from wells.
b Of this acreage, 7411 was double cropped.
c An additional 153410 acre-feet of water was pumped from wells.
d Of this acreage, 25269 was double cropped.
e An additional 74865 acre-feet of water was pumped from wells.
f Of this acreage, 14142 was double cropped.
g Of this acreage, 225 was double cropped.
h Of this acreage, 776 was double cropped.
i Of this acreage, 887 was double cropped.
j Includes 966 acres listed for Miles 35.9L and 37.0L on the Stanislaus River. This acreage also received 46542 acre-feet of water from wells and controlled drainage.
k This acreage also received an undetermined amount of well water and controlled drainage water from Oakdale Irrigation District. Of this acreage, 6691 was double cropped. Includes 2605 acres served by sub-irrigation.

TABLE 237

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS*
November 1956 through October 1957

Water User	Mile Post from Canal Head From	To	Deliveries in Acre-Feet Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
Contra Costa Canal															
Contra Costa County Water Dist.			2325	2603	2653	2381	2019	2641	2980	4276	5471	5896	5442	3544	42231
Industrial and Municipal			119	65	134	128	63	395	655	1212	1235	1044	662	161	5873
Agricultural															
Total			2440	2670	2790	2510	2080	3040	3640	5490	6710	6940	6100	3700	48100
Delta-Mendota Canal															
Plain View Water District	8.50	20.00	141	72	128	614	113	2712	1407	2429	3076	2343	1326	154	14515
Banta-Carbona Irrigation District	20.42		0	0	0	0	0	0	0	0	1014	386	0	0	1400
Hospital Water District	18.05	30.96	47	325	760	609	564	3169	2597	3898	5362	4633	2878	318	25160
West Stanislaus Irrigation Dist.	31.31		0	0	0	0	0	3025	576	4156	7509	4673	0	0	19939
Kern Canon Water District	31.31	35.18	0	51	65	116	59	796	952	1861	1661	1428	578	110	7677
Del Puerto Water District	35.73	42.08	138	233	84	205	448	1948	1128	2738	2573	2081	1276	269	13121
Patterson Water District	42.51		0	0	0	0	0	592	409	483	560	508	347	73	2972
Salado Water District	42.10	46.00	0	59	8	93	113	1039	671	1214	1564	1163	466	53	6443
Sunflower Water District	44.23	52.02	22	81	63	0	35	1571	1295	2059	2520	1734	819	113	10312
Orestimba Water District	46.83	50.66	0	95	70	56	70	2690	1345	2045	2259	1135	637	69	10471
Foothill Water District	51.65	57.46	13	4	0	2	105	682	840	874	1194	904	437	61	5116
Davis Water District	54.01	56.82	0	0	0	0	19	399	406	848	740	519	36	0	2967
Mustang Water District	56.80	62.67	0	0	0	0	138	744	548	1548	1650	1292	553	104	6577
Quinto Water District	63.96	67.55	7	0	0	173	316	366	549	332	753	590	303	48	3437
Romero Water District	66.70	68.03	0	0	0	0	15	233	269	294	420	292	84	0	1607
San Luis Water District	69.21	90.57	304	547	18	325	1110	1929	1538	2001	3960	3100	1180	193	16205
Grassland Water District	70.00		0	0	0	0	0	0	0	0	0	0	10941	21804	32745
Panoche Water District	93.25		1318	0	598	4802	6134	3569	3931	8125	8666	7233	2454	2561	49391
Eagle Field Water District	94.26		0	0	0	0	0	30	357	275	498	646	175	0	1981
West Side Golf Association	95.95		2	0	2	0	4	11	14	20	23	18	15	5	114
Oro Loma Water District	96.62		0	0	0	0	0	484	560	564	712	578	36	174	3108
Mercy Springs Water District	97.85		0	0	0	0	0	215	444	480	494	346	0	0	1979
Widren Water District	102.03		0	18	0	0	30	155	316	248	224	218	74	0	1283
Broadview Water District	102.95		926	1269	0	817	810	1628	1576	2167	2635	1657	1105	736	15326
Total			2920	3750	1800	7810	10080	27990	21730	38630	50070	37480	25720	26840	253800
Madera Canal															
Madera Irrigation District	6.1	32.2	0	0	0	0	5098	9055	4253	21229	31883	30002	17679	1672	120871
Adobe Ranch	20.6		89	81	0	0	0	0	0	0	0	0	0	81	251
Chowchilla Water District	35.9		0	0	0	0	5780	11352	3989	23393	28777	26747	18861	746	119645
Total			90	80	0	0	10880	20410	8240	44620	60660	56750	36540	2500	240800
Friant-Kern Canal															
Fresno County Water District #18	Friant Dam		0	0	0	0	1	2	2	11	12	12	8	3	51
International Water District	14.92		0	0	0	0	0	0	0	206	0	0	0	0	206
Round Mountain Ranch	20.22		0	0	0	0	0	5	11	11	10	20	15	8	80
Tulare Lake Basin Water Service District	28.52 & 95.67		0	0	0	0	0	0	0	35800	0	0	0	0	35800
Alta Irrigation District	28.52		0	0	0	0	0	0	2392	2608	0	0	0	0	5000
Kings County Water District	28.52		0	0	0	0	0	0	192	9834	0	0	0	0	10026
Orange Cove Irrigation District	34.80	54.30	0	0	0	67	222	2069	1630	5038	6593	5945	3086	1281	25931
City of Orange Cove	43.44		7	0	0	4	12	16	19	26	26	25	19	10	164
Lovell Community Water Service District	54.04		0	0	0	0	0	0	0	0	0	20	109	111	240
Yettem-Seville Water Association	54.40		0	0	0	0	0	0	0	0	0	383	319	0	702

TABLE 237

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS* (contd.)
November 1956 through October 1957

Water User	Mile Post from Canal Head From	To	Deliveries in Acre-Feet Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
Stone Corral Irrigation District	56.90	64.40	19	0	0	0	63	734	430	1410	2122	1926	813	422	7939
Ivanhoe Irrigation District	65.04	66.46	583	0	0	0	105	1039	1212	3070	3261	2719	1849	855	14693
Tulare Irrigation District	68.14	71.29	0	0	0	52	26906	16711	9136	32543	32912	13228	14616	3983	150087
Kaweah-Delta Water Cons. District	71.29		510	0	0	0	0	0	436	5697	0	0	4205	0	10848
Exeter Irrigation District	72.52	80.63	722	0	0	32	133	2033	1601	4439	4883	3955	1976	591	20365
Lindsay-Strathmore Irrig. Dist.	85.56		1434	0	104	67	262	2527	2654	4602	4673	4568	3437	2116	26444
Lewis Creek Water District	85.60		0	0	0	0	0	0	0	121	0	0	0	0	121
Lindmore Irrigation District	86.17	91.12	1166	0	0	365	1410	4743	3975	9313	10308	9029	5334	2051	47694
Porterville Irrigation District	93.86	98.13	32	0	0	159	151	470	214	1152	1218	897	524	202	5019
Lower Tule Irrigation District	94.92	98.62	16584	0	0	7400	27152	17675	14926	40031	50742	50224	37569	0	262303
Homeland Reclamation Dist. #780	95.67		0	0	0	0	0	0	0	0	0	3090	2410	0	5500
Saucelito Irrigation District	98.62	107.37	91	0	0	36	1571	2743	1791	5867	7303	7523	4691	1807	33423
Cloer Community Service District	101.60		95	0	0	0	0	0	4	0	0	0	0	40	139
Terra Bella Irrigation District	102.65		292	0	0	0	16	829	627	1208	1704	1732	1234	611	8253
Delano-Earlimart Irrig. District	109.46	118.45	8019	52	0	3703	17292	16884	12095	27503	30877	24760	14545	8727	164457
S. San Joaquin Mun. Utility Dist.	117.44	127.97	2942	81	0	0	16600	10449	7470	19180	23393	20273	10253	3781	114422
Rag Gulch Water District	117.96		387	24	0	0	0	0	206	706	0	809	740	355	3227
Shafter-Wasco Irrigation District	134.4	137.2	0	0	0	0	0	0	0	0	331	930	411	296	1968
Pacific Gas and Electric Company	150.83		887	470	0	0	0	0	0	0	0	0	0	0	1357
Buena Vista Water Service Dist.	151.80		4284	0	0	0	0	0	0	0	0	0	0	0	4284
Total			38050	630	100	11880	91900	78930	61020	210400	180400	152100	108200	27250	960700

* Data furnished by U. S. Bureau of Reclamation and rounded according to criteria applied by the Department.

TABLE 238

DESCRIPTION OF ACTIVE SALINITY OBSERVATION STATIONS - 1957

Station	Miles from Golden Gate (a)	Time Interval (b)		Location
		Hours	Mins.	
				SAN FRANCISCO, SAN PABLO, AND SUISUN BAYS
Point Orient	12.3	2	20	North end of San Francisco Bay, east shore, one-half mile south of Point San Pablo Wharf of Standard Oil Company.
Point Pinole	19.0	2	50	South shore of San Pablo Bay, at Point Pinole on wharf of Atlas Powder Company.
Point Davis	25.2	3	15	East end San Pablo Bay, south shore, Oleum Wharf of Union Oil Company.
Grand View	25.2	3	15	Northwest shore of San Pablo Bay at mouth of Petaluma Creek.
Crockett	27.7	3	30	West end of Carquinez Strait, south shore, 0.2 mile east of Carquinez Bridge on wharf of C. and H. Sugar Refining Corporation.
Benicia	32.5	3	50	East end of Carquinez Strait, north shore, 1.1 mile west of Southern Pacific Company railroad bridge at Benicia Arsenal.
Martinez	32.7	3	50	East end of Carquinez Strait, south shore, 1.0 mile west of Southern Pacific Company railroad bridge at Municipal Ferry Slip. (Bulla Head Point.)
West Suisun	37.0	4	10	West end of Suisun Bay, north shore, 2.5 miles northeast of Southern Pacific railroad bridge at service pier of U. S. Maritime Commission, Reserve Fleet mooring area.
Innisfail Ferry	47.3	4	50	Montezuma Slough, about one mile east of junction with Cutoff Slough near north end of Grizzly Island.
Port Chicago	41.0	4	20	South shore of Suisun Bay at U. S. Naval ammunition loading wharf below Port Chicago.
O & A Ferry (c)	46.5	4	40	Upper end Suisun Bay between Mallard Station and Chipps Island at Sacramento Northern Railroad Ferry Crossing.
Pittsburg	48.0	5	00	East end of Suisun Bay, south shore, at Pittsburg Yacht Harbor.
				SACRAMENTO RIVER DELTA
Collinsville	50.8	5	25	Sacramento River, north bank at junction with San Joaquin River.
Emmaton	57.6	5	45	Sacramento River, south bank, 5.9 miles downstream from Rio Vista.
Threemile Slough Bridge	60.0	5	55	At junction of Slough and Sacramento River.
Rio Vista Bridge	63.5	6	05	At highway bridge near northerly limits of Rio Vista.
Isleton Bridge	68.7	6	30	Sacramento River, one mile upstream from Isleton.
				SAN JOAQUIN RIVER DELTA
Antioch	54.9	5	55	San Joaquin River at City Water Works pumping plant.
Antioch Bridge	58.2	6	10	South shore San Joaquin River at Antioch Bridge.
Jersey Island	61.4	6	20	San Joaquin River, left bank, one mile below mouth of False River.
Threemile Slough	64.2	6	30	Threemile Slough, west bank, of junction of slough with the San Joaquin River.
Oulton Point	67.2	6	40	San Joaquin River, right bank, three miles upstream from junction of Threemile Slough.
San Andreas Landing	70.3	6	55	San Joaquin River, right bank, one mile below the mouth of the Mokelumne River.
Opposite Central Landing	72.0	7	00	Mokelumne River on Andrus Island directly opposite Central Landing on Bouldin Island.
Dutch Slough	73.0	7	05	At Bethel Island Bridge.
Webb Ferry	68.0	6	40	False River at junction with Fisherman's Cut.
East Contra Costa I. D.	86.7	8	20	Indian Slough at East Contra Costa Irrigation District Pumping Plant.
Clifton Court Ferry	94.2	9	10	Old River just below junction with Grant Line Canal.
Mossdale Bridge	108.5	10	50	San Joaquin River at U. S. 50 Highway crossing about three miles southwest of Lathrop.
Vernalis	127.0	11	00	San Joaquin River at Durham Ferry Bridge above tidal influence.

a Mileage measured to station along main channel. For stations off the main channel, the mileage shown is the same distance along the main channel to a point whereon the time of the occurrence of the tidal phase is the same as that of the observation station.
b Time interval between high tide at Golden Gate and time for taking samples at station.
c Effective April 28, 1957, samples were taken from Spoonbill Creek at railroad crossing.

TABLE 239

MAXIMUM RECORDED SALINITY AT BAY AND DELTA STATIONS

Water Year	1931	1938	1939	1944 a	1947	1951	1952	1953	1954	1955	1956 b	1957
Sacramento-San Joaquin Runoff in per cent of average (c)	33	184	48	61	59	131	164	104	92	62	171	80
Station (d)	Maximum recorded salinity in parts per million											
					San Pablo Bay							
Point Orient	18700	17000	19200	17300	18800	17700	16700	16900	19320	20000	18300	19100
Point Pinole					16800	15500	14200	13300	15600	19000	16200	17300
Point Davis	18100	*14600	18400	15200	16500	14600	12700	14400	15800	12900	13800	e
Grand View	18700			15300	18000	15900	12100	14000	15500	16700	16400	16400
Crockett					17900	15100	13200	14680	16000	16600	15300	15100
					Carquinez Strait							
Benicia				13900	15100	12200	10400	12020	14000	15100	12300	13900
Martinez	16900	11600	16400		13400	10100	8900	10500	11800	11900	11900	9570
					Suisun Bay							
West Suisun					13500	10800	7900	9940	12800	12600	11200	11800
Innisfail Ferry	14000	3300	13600	7900	8200	4400	4200	6430	6900	5780	5200	6050
Port Chicago					12400	8700	6900	8940	10900	12500	9750	10200
O & A Ferry	13900	2560	11800	7300	6100	4400	2800	3640	5670	6400	4040	f 3920
Pittsburg					5000	2400	1200	1830	4580	7800	3440	3050
					Sacramento River Delta							
Collinsville	12600	860	10400	4700	4500	1750	783	2200	4520	3880	2280	2690
Emmaton								e	1380	1080	158	452
Threemile Slough Bridge	8600		5900	1610	1250	600	175	155	818	635	56	277
Rio Vista Bridge	7400		4050	550	270	70	175	33	126	158	21	20
Isleton Bridge	6350		2500	50	50	60	125	29	28	23	17	14
					San Joaquin River Delta							
Antioch	12400	510	9200	4000	4700	970	354	1440	3430	3320	1270	1850
Antioch Bridge					3000	e	e	360	1970	2360	160	1630
Jersey Island								490	1480	1130	152	602
Threemile Slough								49	960	428	82	180
Oulton Point								65	395	376	105	186
San Andreas Landing								61	123	98	66	51
Opposite Central Landing	4250	100	1380	200	200	80	250	44	75	36	96	40
Dutch Slough	5100	110	2250	690	840	170	88	114	688	454	107	250
Webb Ferry								160	652	331	79	e
East Contra Costa I. D.			320	140	190	190	152	167	200	196	173	551
Clifton Court Ferry	1300		190		160	120	112	122	160	146	146	146
Mossdale Bridge	120	120	160	130	180	190	122	194	209	224	206	205
Vernalis					*180	220	121	205	198	231	202	182

* Estimated.
a Releases of stored water from Shasta Lake commenced in 1944.
b Releases of stored water from Folsom Reservoir commenced in 1956.
c Average taken as mean annual unimpaired flow at foothill stations of major tributaries for 50-year period October 1905 through September 1955.
d For location see Table 238.
e Record incomplete.
f Taken from Spoonbill Creek at railroad crossing.

TABLE 240

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts per million

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	October 1956							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Orient	16700	17100	14600	14600	16500	16900	14000	16500
Point Pinole								
Point Davis			b 10400	11600	b 12800	13100	11300	
Grand View	12400	12200	12300	12400	11700	12300	12100	11700
Crockett	10400	12400	9620		12700	12300	10500	d 11000
Benicia		7640	8040	7220	8410	8880	7620	10400
Martinez	*7360	7500	a 4400	5600	7860	7920	a 5090	5300
West Suisun			4960	3710		7820	5100	6000
Innisfail Ferry			a 1690	1600			2300	1800
Port Chicago	3600	5120	4000	4120	6610	6640	3050	6480
O & A Ferry	876	992	397	316	1250	1520	819	1120
Pittsburg		988			621	74	a 418	273
			Sacramento River Delta					
Collinsville		317	134	30	213	644	a 103	d 149
Emmaton	14		16	12	11		a 16	
Threemile Slough Bridge	26	14	15	11	12	12	4	11
Rio Vista Bridge	9	7	7	10	6	10	10	7
Isleton Bridge	6	7	6	9	6	5	6	7
			San Joaquin River Delta					
Antioch	117	148	116	72	128	165	a 116	150
Antioch Bridge	34	b 34	60	28	33	36	33	31
Jersey Island								
Threemile Slough	13		a 15	24			a 27	18
Oulton Point	a 24	a 25	a 23					
San Andreas Landing	23	a 30	a 27	26	24	23	a 30	26
Opposite Central Landing	18	a 17	a 12	14	20	a 11	a 12	18
Dutch Slough	37	a 33	a 35	38	35	a 36	38	
Webb Ferry	a 25	a 28	a 24	e 25	26	24		
E.C.C.I.D.	72	a 92	a 102	b 135	a 93	a 91	a 94	111
Clifton Court Ferry	a 80							
Mossdale Bridge	a 102	a 93	a 95	97	a 72	a 73	a 95	a 108
Vernalis (g)	101	a 95		e 103	f 86	c 84	87	104

	November 1956							
			San Francisco, San Pablo, and Suisun Bays					
Point Orient	16200	14700	13700	15800	16300	16500	15600	16800
Point Pinole								
Point Davis		9400	10400		*12200	11400	11900	
Grand View	12000	11900	12000	11800	13600	11600	12000	
Crockett	10000	b 9200	9400	11800	11500	10000	10900	10800
Benicia	7900	7100	5600	d 7400	8690	7620	8450	8570
Martinez	6130		5600	6220	6170		5520	7540
West Suisun			5400	4450	5970	4020		5110
Innisfail Ferry		1600	a 1750		1820	1850		
Port Chicago	3700	2900	4120	4030	5890	4500	4490	5000
O & A Ferry	467	237	404	1050	1180	508	326	
Pittsburg	142	a 80			135		110	
			Sacramento River Delta					
Collinsville	128	40	56	51	252		70	48
Emmaton	a 11							
Threemile Slough Bridge	13	11	10	10	21	10	13	10
Rio Vista Bridge	6	6	6	8	6	7	8	8
Isleton Bridge	6	5	6	10	4	7	5	5
			San Joaquin River Delta					
Antioch	103	46	41	50	73	83	79	127
Antioch Bridge	31	31	32	30	30	b 33	35	a 36
Jersey Island								
Threemile Slough			a 26	16	24		27	32
Oulton Point		a 28						
San Andreas Landing	28	30	15	28	29	a 31	33	29
Opposite Central Landing	12	a 8	8	7	20	a 5	9	11
Dutch Slough	41	a 47	48	43	43	43	51	a 59
Webb Ferry								
E.C.C.I.D.	a,b 113	a 114	119	122	a 127	b 135	132	130
Clifton Court Ferry								
Mossdale Bridge	105	a 102	96	a 103	a 91	a 47	50	a 62
Vernalis (g)		98		e 101	f 105	b 59	b 68	

* Presumed.
a Taken after Low High Tide
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 240

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts per million

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	December 1956							
	2	6	10	14	18	22	26	30
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	19000	14900	13600	d 14100	16800	15400	16300	
Point Pinole								
Point Davis	12400	10300		12500	12200		11399	11600
Grand View	11400	11400	11100	10500	10800	10900	10900	10800
Crockett		9460	b 9750	11400	12000	10700	10700	11100
Benicia	8470	6400	7120	a 5450	8510		7400	10100
Martinez	7010	5100	6250	8310	7580	5380	6760	7730
West Suisun	5410	4250			6680	4260		6400
Innisfail Ferry		2010	6050	2020	2370	2380		
Port Chicago	5160	3600	4130	6130	5750	4150	5010	5550
O & A Ferry	1160	670	237	1730	1440	559	427	1830
Pittsburg	280	255		1010		492	366	
				Sacramento River Delta				
Collinsville	280			425	575	191	165	576
Emmaton	14	a 14		29				
Threemile Slough Bridge	15	26	13	15	16	16	14	19
Rio Vista Bridge	5	5	6	8	7	6	7	7
Isleton Bridge	7	5	5	13	6	6	6	6
				San Joaquin River Delta				
Antioch	144	65	61	179	223	128	106	195
Antioch Bridge	38	39	a 42	43	44	43	b 44	b 45
Jersey Island								
Threemile Slough		a 29		39	d 31	31	26	18
Oulton Point								
San Andreas Landing	34	35	36	d 30	35	32	30	b 34
Opposite Central Landing	18	a 10	10	13	23	9	13	26
Dutch Slough	a 60	a 59	65	a 58	a 61	60	59	a 56
Webb Ferry								
E.C.C.I.D.	a,b 125	a 105	107	b 102	a 95	99	110	a 121
Clifton Court Ferry								
Mossdale Bridge	a 53	a 48	62	a 74	a 87	84	99	a 99
Vernalis (g)	c 71		b 75			e 67	83	
	January 1957							
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	16100		16100	15900	16200	14000		15900
Point Pinole					11600			
Point Davis				12200		9540		10900
Grand View	10800	10800	10700	9760	10900	9930	9920	9810
Crockett	11200	a,b 9540	10000	12300	10200	*9660	9410	9570
Benicia	8360	7180	7340	9090	7310	6370	8010	6940
Martinez	6270	7140	7150	7530	*4300	4880	5540	5340
West Suisun	5490	4270	5490	6560	3860	3960	4890	3790
Innisfail Ferry	2220	2220	e 2250	2180		1980	1740	
Port Chicago	5490	4180	5780	7360		3240	4290	d 2780
O & A Ferry		628	799	1210	899	530	760	742
Pittsburg	c 306	299	161	264		371	b 184	137
				Sacramento River Delta				
Collinsville	400	119	248	621	108	74	150	96
Emmaton					20	19	19	24
Threemile Slough Bridge	15	13	15	15	14	14	17	14
Rio Vista Bridge	9	7	6	10	10	11	10	8
Isleton Bridge	6	7	7	8	14	a 8	8	8
				San Joaquin River Delta				
Antioch	180	109	124	389	119	95	93	88
Antioch Bridge	a,b 43	40	11	51	44	43	f 42	44
Jersey Island								
Threemile Slough	31			a 29	31	42		24
Oulton Point								
San Andreas Landing	34	32	27	*34	41	43	19	44
Opposite Central Landing	a 14	10	17	25	a 16	14	29	24
Dutch Slough	a 55	63	56	55	a 68	d 61	60	67
Webb Ferry								
E.C.C.I.D.	a 122	124	129	132	a 141	149	e 159	a 157
Clifton Court Ferry					a 113	110		a 123
Mossdale Bridge	a 97	92	92	a 97	a 100	107	a 114	a 134
Vernalis (g)				b 105		122		e 116

* Presumed.
a Taken after Low High Tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 240

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts per million

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	February 1957							
	2	6	10	14	18	22	26	30
		San Francisco, San Pablo, and Suisun Bays						
Point Orient	14700	15800		17100	15600	14800	13700	
Point Pinole								
Point Davis	10700	11100	11800	12300	12100		9160	
Grand View	9640	9820	9920	b 9560	9550	9710	9640	
Crockett	9440	9210		12500	12200	8970		
Benicia		6770	10100	9030	8710	e 7270	3880	
Martinez	4980	7970	8660	6360	6680	6770	2180	
West Suisun	3700	4750	6570	7340	6400	4840	1290	
Innisfail Ferry	1940	1870	2020	2700	2420		2550	
Port Chicago	3350	5050	5850	6410	5200	5560	2600	
O & A Ferry	725	535	1690	2100	1650	1130	218	
Pittsburg		382	1300	679	436	544	142	
			Sacramento River Delta					
Collinsville	a 103	68	395	*803			27	
Emmaton	19	a 22			21	a,b 25	6	
Threemile Slough Bridge	17	18	19	23	22	18	4	
Rio Vista Bridge	9	9	10	9	10	9	5	
Isleton Bridge	10	8	9	7	6	7	2	
			San Joaquin River Delta					
Antioch	91	78	242	374	305	221	90	
Antioch Bridge	a 45	46	117	53	57	55	57	
Jersey Island								
Threemile Slough	a 26	23			25	30	33	
Oulton Point	a 41							
San Andreas Landing	a 46		48	46	a 45	39	28	
Opposite Central Landing	14	22	40	29	23	12	d 6	
Dutch Slough	a 70	71	67	68	68	70	78	
Webb Ferry								
E.C.C.I.D.	a 160	157	b 178	a 174	170	161		
Clifton Court Ferry		127		a 134	116		139	
Mossdale Bridge	a 119	152		a 101	116	145	a 174	
Vernalis (g)	e 109	e 144	c 121	b 106		165		

Station	March 1957							
		San Francisco, San Pablo, and Suisun Bays						
Point Orient	9400	8820	8740	10700	11500		12400	13300
Point Pinole				5660	a 5110	3090		
Point Davis	2520			3490	a 1990	1390	6090	8390
Grand View		8460	e 5730	4500	4230	4360	4570	5060
Crockett	1160	2750	1010	2000	1910	1620	4920	
Benicia	151	1760	119	1830	1820	130		5820
Martinez		140	77	82	a 66	423	1800	a 2230
West Suisun	126	56	60	68		46		1830
Innisfail Ferry	2040	918	272	271	a 297	328	356	a 341
Port Chicago	35	23	b 17	29	27	22	134	257
O & A Ferry	13	9	12	11	12	15	15	20
Pittsburg	b 22	19	22	23	a 22	b 23	b 18	a 19
			Sacramento River Delta					
Collinsville	14	8	5	11	8	12	9	a 13
Emmaton	a 4	a 5	2	a 7	7	6	17	a 8
Threemile Slough Bridge	3	7	5	6	14	6	11	7
Rio Vista Bridge	6	4	4	4	6	6	5	8
Isleton Bridge	3	4	0	3	5	5	6	6
			San Joaquin River Delta					
Antioch	35	32	25	24	28	26	25	a 29
Antioch Bridge	48	38	36	39	a 38	d 38	38	* 37
Jersey Island					32			
Threemile Slough	22	12		20	a 16	16		a 15
Oulton Point				20				
San Andreas Landing	20	12	20	24	a 20	23	22	a 21
Opposite Central Landing	a 3	7	2	6	6	7	10	a 8
Dutch Slough	a 85	84	76	83	79	72	72	63
Webb Ferry								
E.C.C.I.D.	a 207	173	e 224	221	207	551	185	b 159
Clifton Court Ferry		146		a 107	97			
Mossdale Bridge	a 139	102	107	a 87	68	45	a 50	94
Vernalis (g)	e 138	e 102	c 100			43	52	e 86

* Presumed.
a Taken after Low High Tide.
b Taken on following day.
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e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 240

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts per million

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	April 1957							
	2	6	10	14	18	22	26	30
	San Francisco, San Pablo, and Suisun Bays							
Point Orient	11300	13400	13600	13600		11900	e 11900	14700
Point Pinole	a 8140		a 11200			a 11800		a 12300
Point Davis	6380	7620	e 9480				8510	12400
Grand View	6060	7620	e 10800	8920	10100	10200	9100	9280
Crockett	a 5080	7620	e 8500		7710	6990	7010	a 8840
Benicia	4470	6260	e 5490	7910	7100		5330	5740
Martinez	768	1700	a 3920	a 3570	a 2470		a 2460	a 3800
West Suisun	1200	3670	3110	5420	3110	1970	3120	5370
Innisfail Ferry	a 370	a 329	a 363		698	a 578	a 544	a 539
Port Chicago	677	2680	f 2630	4620	3900	2420	3140	b 3970
O & A Ferry (h)	23	35	50	278	538	38	21	535
Pittsburg	a 22	28	a 30	a,b 203	b 163			a 144
	Sacramento River Delta							
Collinsville	a 16	20	a 15		31	a 18	a 27	a 23
Emmaton	12	12	a,f 11	a 12	11	a 5	a 22	a 8
Threemile Slough Bridge	10	12	12		9	9	*7	9
Rio Vista Bridge	12	9	9	6	5	b 6	5	5
Isleton Bridge	7	6	6	7	4		7	
	San Joaquin River Delta							
Antioch	a 31		a 29	a 43	86	a 33	a 18	
Antioch Bridge	d 37	22	a 28	c 36	57	*b 21	a 16	20
Jersey Island	35	31		a 27	33			
Threemile Slough	a 23	23	a 18	a 13	11	a 14	a 12	a 9
Oulton Point	24		a 18					
San Andreas Landing	a 23	21	a 14	a 11	a 10	a 6	a 11	a 8
Opposite Central Landing	16	12	a 5	a 11	a 5	a 4	a 11	a 5
Dutch Slough	50	36	a 39	38	a 35	a 35	a 31	23
Webb Ferry								
E.C.C.I.D.	132	129	a 100	82	a 72	a 72	a 69	a 65
Clifton Court Ferry		110	82	62	56	a 89	66	47
Mossdale Bridge	107	172	a 201	205	145	a 70	105	88
Vernalis (g)	102	e 169	e 179	f 180	b 114	73	85	102
	May 1957							
	San Francisco, San Pablo, and Suisun Bays							
Point Orient	15000	14400	15100	15300	15000	11300	c 8750	12500
Point Pinole				a 11700		d 7280		
Point Davis			e 10700	7910	7500	3820	e 2560	3390
Grand View	a 9370	9530	e 9970	9970	9710	10200	9350	
Crockett	a 8290	9170	e 9950	8170	7000	b 3880	e 2910	3110
Benicia	5500	6280	e 4060	4100	3660	1230		1090
Martinez		2690	a 2650	a 3420	a 1520	a 506	a 85	a 255
West Suisun	4680		e 3600	3640	1680		e 108	221
Innisfail Ferry	a 584	799	785	a 824	811		a 430	a 389
Port Chicago	4870	3290	b 2870	3670	2490	96	13	
O & A Ferry (h)	175	352	e 158	186	80	21		
Pittsburg	a 75	161			87	a 6	a 8	
	Sacramento River Delta							
Collinsville	a 49	90	a 16	a 18	24	a 7		a 5
Emmaton	a 8	a 7	8	a 9	9	a 9	a 6	a 8
Threemile Slough Bridge	7	7	8	8	8	4	4	6
Rio Vista Bridge	4	6	7	7	8	b 3	4	6
Isleton Bridge	4	5	5	6	6	b 2	1	2
	San Joaquin River Delta							
Antioch	a 28	52	a 47	a 33	22	a 12	a 13	a 15
Antioch Bridge	*20	24	a,e 35	30		a,b 9	10	43
Jersey Island	a 13	19	a 14	a 12	11	a 14	a 11	
Threemile Slough		13	a 6		14	a 13	a 11	a 16
Oulton Point					a 12	a 11	a 10	11
San Andreaa Landing	a 10	6	a 9	9	a 10	a 8	a 13	a 14
Opposite Central Landing	8	8	a 7	a 7	6	a 2	a 3	a 5
Dutch Slough	19	19	a 20	a 19	20	a 18	a 19	a 16
Webb Ferry								
E.C.C.I.D.	a,b 86	a 57	a 14	40	38	a,b 65	60	62
Clifton Court Ferry	53	35	35	33		a 49	42	43
Mossdale Bridge	124	155	a 132	135		a 23	27	35
Vernalis (g)	b 137	b 148	114	136	e 110	e 32	f 35	b 38

* Presumed.
a Taken after Low High Tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.
h Effective April 28, 1957, taken from Spoonbill Creek at railroad crossing.

TABLE 240

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts per million

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	June 1957							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Orient	12400	12100	e 11000	12900			e 15800	
Point Pinole		a 8230	a 8220	a 8290				
Point Davis	3600	7160			9240	9700	e 13300	12600
Grand View	7460	6410	e 6500	6640	8480	8810	e 9180	9320
Crockett		3790	a,b 3280	4880	7810	8140	e 12100	11900
Benicia	768		e 1210	1860	3620	5790	e 4960	8650
Martinez	a 75	a 1040	a 536	a 1470	1880	*3290	5360	a 6150
West Suisun	262	776	966		1990	4810	8080	
Innisfail Ferry		a 258	a 222	d 150	148	258	504	
Port Chicago	38	403	1550	630	2330	4930	6390	6320
O & A Ferry (1)	9	10	12	17	19	310	2430	1920
Pittsburg	8	a,b 11	a 12	b 21		a,b 142	691	a 1190
			Sacramento River Delta					
Collinsville	8	14	a 11	a 7	23	a 17	233	a 564
Emmaton	6	a 5	a 9	a 8	14	b 11	15	a 41
Threemile Slough Bridge.	5	5	7	8	9	b 9	a 11	29
Rio Vista Bridge	20	b 6	4	5	6	b 7	7	8
Isleton Bridge	4	b 4	6	5	6	b 7	8	2
			San Joaquin River Delta					
Antioch	10	a 13	a 14	16	16	a 25	192	a 422
Antioch Bridge	9	13	15		15	22	a 103	*141
Jersey Island		a 21	a 14		16		a 22	a 35
Threemile Slough	a 12	a 16	a 14	a 15	a 17		13	a 15
Oulton Point	12	a 13	a 15	15	a 14	a 13	14	22
San Andreas Landing	12	a 12	a 14	a 8	a 12	a 7	11	a 10
Opposite Central Landing	6	a 5	a 4	a 5	a 6	a 8	8	a 9
Dutch Slough	17	a 24	a 22	20	a 24	a 24	24	26
Webb Ferry								
E.C.C.I.D.	59	b 52	52	49	48	a 54	35	30
Clifton Court Ferry			24	25	a 51		a 29	35
Mossdale Bridge	50	a 18	12	42	a 50	a 84	108	134
Vernalis (g)	c 7	b 16	b 13	41	48	e 89	109	f 116

Station	July 1957							
			San Francisco, San Pablo, and Suisun Bays					
Point Orient	h 16800	h 16400	e,h 16300	h 16500	h 17400	h 17200	e,h 17400	19100
Point Pinole						a,h 15000	a 15900	
Point Davis								
Grand View	h 9720	h 9920	e,h 10200	h 11300	d 12900	h 12400	e,h 12800	13500
Crockett	h 10700	h 13400	a,h 11500	a,h 11700		h 14100	a 13700	
Benicia	h 6560	h 8240	h 9720	h 9680	h 9440	h 10700	c 10100	11300
Martinez	h 5860	a,h 6790	a,h 6910	a,h 6650	a,h 9280	a,h 7700	8950	9090
West Suisun	h 6710	h 7350	h 9040	h 8570	h 9300	h 9980	h 10600	
Innisfail Ferry		*h 1960	h 3400	a,h 3550	h 3910	h 4520	a,h 5090	a 5130
Port Chicago	h 5040	h 6880	h 8390		h 8250	h 9100	h 9060	8340
O & A Ferry (1)	h 1550	h 2280	h 2610	h 2880	h 3090	h 3890	h 3730	h 3450
Pittsburg	h 976	a,h 977	a,h 1700	a,h 1780	h 1900		a 2620	a 3050
			Sacramento River Delta					
Collinsville	a,h 944	a,h 856	a,h 1020	*a,h 1460	h 1870	a,h 1860	a 1890	a 2690
Emmaton	a,h 24	h 109	a,h 62	h 322	a,h 205	b,h 388	a 88	387
Threemile Slough Bridge	h 25	b,h 29		h 61	h 67	b,h 122	h 220	
Rio Vista Bridge	h 7	b,h 8	h 9	h 9	h 12	b,h 10	h 11	10
Isleton Bridge	h 7	b,h 10	h 8	h 9	h 10	b,h 8	8	8
			San Joaquin River Delta					
Antioch	h 456	a,h 628	a,h 482	h 693	h 1690	a,h 991		1850
Antioch Bridge					h 880	b,h 1290	h 1630	1170
Jersey Island		a,h 131			h 384	b,h 144	a 262	a 435
Threemile Slough	a,h 19	a,h 19	a,h 26	a,h 33	a,h 84	a,h 67	a 144	a 180
Oulton Point	h 16	a,h 17	h 51	h 56	h 63	a,h 50	149	130
San Andreas Landing	a,h 11	a,h 12	a,h 13	a,h 15	a,h 26	a,h 24	31	a 51
Opposite Central Landing		a,h 8	a,h 9	h 10	a,h 13	a,h 12	a 12	a 12
Dutch Slough			a,h 51	h 85	a,h 93	a,h 194	a,h 195	a 217
Webb Ferry								
E.C.C.I.D.	a,h 32	b,h 26	b,h 49	h 23	a,h 24	b,h 28	34	51
Clifton Court Ferry	a,h 23		h 139	h 20	a,h 25		h 33	h 40
Mossdale Bridge	a,h 111	a,h 136	h 20	h 169	a,h 172	a,h 174	161	a 168
Vernalis (g)	114	e 41	e 137	f 156	b 167	b 151	166	152

* Presumed.
a Taken after Low High Tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.
h Taken two hours early.
1 Taken from Spoonbill Creek at railroad crossing.

TABLE 240

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts per million

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	August 1957							
	2	6	10	14	18	22	26	30
		San Francisco, San Pablo, and Suisun Bays						
Point Orient	18000	e 18500	17500	16900	17800	a 17800	17200	17100
Point Pinole	a 16700	a 17300				a 15800	a 15400	
Point Davis				16300				
Grand View	13400	e 13700	14800		16400	e 16200	b 16300	14900
Crockett	14700	13100	14600	a 13700	15000		a 14500	15100
Benicia	13900	11600	11900	10400	11300	10800		11900
Martinez	a 7940	a 7910	a 8970	9220	a 8140	a 7740	a 9230	*8810
West Suisun	11800	10200	10400	9920	9920	10600	11300	
Innisfail Ferry	a 4470	a 5230	5810	5440	a 5050	*5230	a 5150	a 5280
Port Chicago	9460	10200	9680	8160	9680	10200		8400
O & A Ferry (i)	h 3640	e,h 3920	h 3800	h 3210	h 3700			
Pittsburg	2070		a 2080	3000	a 2280	a 2460	a 2390	
			Sacramento River Delta					
Collinsville	a 2320	a 2200	a 2560		d 1920	a 2000	2640	
Emmaton	a 235	a 258	a,b 346	338	412	a 154	a 434	452
Threemile Slough Bridge	277	232	186	159		125	159	109
Rio Vista Bridge	11	9	10	10	9	9	10	8
Isleton Bridge	b 5	8	7	10	b 7	8	9	8
			San Joaquin River Delta					
Antioch	1760	a 1350	1140	579	d 1090	a 1110	a 1310	
Antioch Bridge	1470	920			1340	a,b 266	1360	1130
Jersey Island	a 257	a 263	b 602	485			a 355	
Threemile Slough	a 102	a 95	a 153	a 158		d 159		a 124
Oulton Point	a 93	a 111	186	a 123	a 80	a 88	a 136	a 72
San Andreas Landing	a 30	a 40	44	a 47	a 34	a 38	a 37	a 21
Opposite Central Landing	a 9			a 12	a 10	a 9	12	a 10
Dutch Slough	a 185	190	a 223	d 196	a 194	a 185	250	a 171
Webb Ferry								
E.C.C.I.D.	a 62	a 67	69	a 77	d 83	a,b 87	83	93
Clifton Court Ferry	a 31			a 62				
Mossdale Bridge	a 172	165	156	a 146	a 170	148	161	a 160
Vernalis (g)	182	162	e 152	e 139	c 133	b 134	b 142	144
	September 1957							
		San Francisco, San Pablo, and Suisun Bays						
Point Orient								
Point Pinole		a 15600	16000					a 13000
Point Davis								
Grand View	14300	14800	15200		14900	14900	14400	14300
Crockett	b 14800	12800	b 14100	13500	13100	12900	d 13200	9940
Benicia	12700	10100	11100	11300	11400	6790	8970	8050
Martinez	a 7470	a 7780	8810	8780	a 6210	a 6580	9570	a 5200
West Suisun	8740	6160	9320		8240	7100	7910	5760
Innisfail Ferry	a 5460	a 5510		4880	a 4910		3260	3170
Port Chicago	9070	8330	7880	7730	7060		6010	4460
O & A Ferry (i)		3360	3020					
Pittsburg		a 1750		a 1150			1130	218
			Sacramento River Delta					
Collinsville	a 1510			a,*1050		a 277	a 378	331
Emmaton	b 175		98	a 27	b 25	32	a 20	13
Threemile Slough Bridge	b 101	57	55	30	b 25	17	14	11
Rio Vista Bridge	b 10	10	11	11	b 11	11	9	6
Isleton Bridge	b 10	11	11	9	b 9	9	9	7
			San Joaquin River Delta					
Antioch	a 957	a 955	952	749	a 289	a 342	444	a 175
Antioch Bridge	a,*672	*847	694	318	b 255	249	223	141
Jersey Island	a,b 160			a 92	a 65		70	
Threemile Slough	a 115	a 53	76	a 36	a 30		a 21	a 19
Oulton Point	a 76	a 75	60	a 40	a 26	33	28	a 22
San Andreas Landing	a 24	a 25	28	a 21	a 21	a 18	16	a 14
Opposite Central Landing	a 11	a 11	a 12	a 14	a 14	a 10	a 8	a 7
Dutch Slough	a 151	d 150	a 136	a 113	a 84	a 71	a 55	a 44
Webb Ferry								
E.C.C.I.D.	b,d 84	d 88		d 78	d 82	b,d 88	d 80	a 74
Clifton Court Ferry		62	a 60		a 59	53	52	a 49
Mossdale Bridge	a 148	139	a 142	a 140	a 134	115	a 131	a 118
Vernalis (g)	b 122	153	154	e 137	e 133	f 138	b 129	b 104

* Presumed.
a Taken after Low High Tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.
h Taken two hours early.
i Taken from Spoonbill Creek at railroad crossing.

TABLE 241

RECORDING TIDE GAGES IN SACRAMENTO-SAN JOAQUIN DELTA AND SUISUN BAY

Name of Station	Operated by*	Location	Date Installed
		Sacramento Delta	
Clarksburg	DWR	Right bank of Sacramento River at American Crystal Sugar Company dock.	1936
Collinsville	DWR	Right bank of Sacramento River on pile dolphin about 0.1 mile upstream from junction of Main Street and river.	June 1929
Freeport	USGS	Right bank of Sacramento River 2.5 miles above Freeport.	Aug. 1955
Isleton	USBR	Left bank of Sacramento River at Shell Oil Company docks at junction of Highway 12 and 24 in Isleton.	April 1949
Rio Vista	USCE	Right bank of Sacramento River at U. S. Engineers depot below Rio Vista; about 1½ miles below Rio Vista Bridge.	April 1908
Snodgrass Slough	DWR	Left bank of Sacramento River about 0.1 mile above Hollister Landing and about ¼ mile above head of Snodgrass Slough (now leveed off).	Aug. 1939
Threemile Slough (Sacramento)	DWR	Pile dolphin about 0.1 mile from Threemile Slough Bridge on Brannon Island site.	April 1929
Walnut Grove	DWR	Left bank of Sacramento River at head of Georgiana Slough; lower end of town of Walnut Grove.	Feb. 1929
		Mokelumne Delta	
Georgiana Slough	DWR	On Andrus Island near junction of Georgiana Slough and Mokelumne River.	June 1929
New Hope	DWR	Right bank of south fork of Mokelumne River just below New Hope Bridge.	Aug. 1920
		Yolo Bypass	
Liberty Island	DWR	Right bank of dredger cut separating Little Holland and Liberty Island. One-half mile north of Yolo-Solano County line.	1930
Lindsay Slough	DWR	South bank of Lindsay Slough ½ mile west of Wright Cut. At Montezume Ranch headquarters of California Packing Corporation.	Jan. 1942
Lisbon	DWR	Left bank of Yolo Bypass 500 feet below east end of Sacramento Northern Railroad trestle.	1920
West Cut at Five Points	USCE	Left bank of West Cut above junction with Minor Slough approximately 750 feet north of Five Points Resort.	Oct. 1957
		San Joaquin Delta	
Antioch	DWR	On wharf of Antioch Water Works.	June 1929
Brandts Bridge	USBR	Right bank of San Joaquin River at Brandts Bridge between Roberts Island and Reclamation District 17.	July 1940
Burns Cut-Off	USBR	On Stockton Ship Channel at East Bay Municipal Utility District crossing; northwest corner of Rough and Ready Island.	May 1940
Delta Cross Channel	USBR	Left bank approximately 1000 feet below head near Walnut Grove.	Sept. 1952
Grant Line Canal	USBR	Right bank of Grant Line Canal at Tracy Road crossing.	Oct. 1940
Middle River at Bacon Island	USBR	Most northeasterly point of Bacon Island at Junction of Middle River and Connection Slough.	Oct. 1948
Middle River (Borden Hwy.)	DWR	Left bank of Middle River just below Borden Highway Bridge on Victoria Island.	July 1939
Middle River (Mowry Bridge)	USBR	Right bank Middle River at Undine Road crossing on upper Roberts Island.	July 1948
Mossdale Bridge	DWR	Right bank of San Joaquin River just below U. S. 40 highway crossing.	1920
Old River at Clifton Court Ferry	USBR	Left bank approximately 2000 feet downstream from junction with Grant Line Canal.	Dec. 1948
Old River at Holland Tract	USBR	Left bank about 1½ miles south of northeast corner of Holland Tract.	Sept. 1951
Old River at Mansion House	DWR	Right bank on timber dolphin at Mansion House on Victoria Island.	Aug. 1939
Old River near Rock Slough	DWR	Left bank of Old River 1½ miles north of junction with Rock Slough on American Island.	Mar. 1945
Old River near Tracy Road Bridge	DWR	Left bank at Galli'a Pump, Mile 53.0. About 1000 feet upstream from Tracy Road Bridge.	Mar. 1952
Rindge Pump	DWR	At southeast corner of Rindge Tract on Fourteenmile Slough at junction with Ship Channel.	July 1939
Rock Slough	USBR	On Contra Costa Canal intake approximately 1½ miles northeast of Knightsen. (No record: February to December 1946).	Oct. 1944
San Andreas Landing	USBR	On right bank of San Joaquin River approximately 1¼ miles downstream from junction of Mokelumne River.	May 1952
Stockton	USCE	At head of McLeod Lake on Center Street.	Dec. 1927
Tom Paine Slough	DWR	At mile 2.2 above mouth (0.1 mile east of mouth of Sugar Cut).	June 1951
Threemile Slough (San Joaquin)	DWR	On Sherman Island at Reclamation District 341 drainage plant on pile dolphin. Near junction of Slough with San Joaquin River.	June 1929
Venice Island	USCE	At Blakes Landing on Stockton Ship Channel near Venice Island headquarters.	Jan. 1928
		Suisun Bay	
Benicia	DWR	North side of Suisun Bay. On Benicia Arsenal wharf.	ð April 1940

* DWR - Department of Water Resources; USGS - U. S. Geological Survey; USBR - U. S. Bureau of Reclamation; USCE - U. S. Corps of Engineers.

ð Gage originally installed June 1929 and operated until October 1931 by Department of Water Resources. In interim 1931 to April 1940, recorders were operated here at intervals by U. S. Corps of Engineers and U. S. Coast and Geodetic Survey.

TABLE 242

SACRAMENTO RIVER AT KESWICK
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	11.7	11.0	9.4	8.2	24.0	8.0	10.9	13.2	17	11.4	11.1	8.7	7.8	12.0	9.1	13.5	12.2
2	11.7	11.0	9.4	7.8	26.0	8.2	11.0	13.1	18	11.3	11.0	8.7	7.8	12.0	9.1	18.9	12.2
3	11.7	11.0	9.8	7.8	26.4	8.2	11.0	13.1	19	11.4	11.0	8.2	7.8	12.0	10.2	20.6	12.2
4	11.7	11.0	9.2	7.8	25.7	8.1	11.2	12.8	20	11.4	11.0	8.3	7.8	12.0	10.2	20.1	12.2
5	11.7	11.0	9.1	7.8	25.0	8.1	11.7	12.8	21	11.0	11.0	8.2	7.8	11.9	10.2	16.3	12.2
6	11.7	11.0	9.2	7.8	24.5	8.1	11.7	12.8	22	11.0	10.7	8.2	7.8	12.0	10.2	13.7	12.2
7	11.7	11.0	9.2	7.8	20.4	8.0	11.7	12.4	23	11.0	10.6	8.2	8.3	10.5	10.2	13.4	12.3
8	11.8	11.0	9.1	7.8	17.0	8.1	11.7	12.2	24	11.0	10.6	8.2	12.7	10.4	10.1	14.2	12.3
9	11.7	11.0	9.1	7.8	13.9	8.0	11.8	12.2	25	11.0	10.6	8.2	14.9	10.5	10.2	14.6	12.3
10	11.4	11.0	9.2	7.8	11.9	8.1	12.6	12.2	26	11.0	10.6	8.2	15.3	8.4	10.2	14.6	12.6
11	11.4	11.0	8.7	7.8	12.0	8.3	12.9	12.2	27	11.0	10.2	8.2	12.6	8.4	10.2	14.8	12.6
12	11.4	11.0	8.8	7.8	10.6	9.0	12.9	12.2	28	11.0	10.2	8.2	14.6	7.8	10.2	12.6	12.7
13	11.4	11.0	8.8	7.8	10.5	9.0	12.9	12.1	29	11.0	9.4	8.2	-	7.8	10.8	13.4	13.0
14	11.4	11.0	8.8	7.8	10.5	9.0	12.9	12.1	30	11.0	9.4	8.2	-	7.4	11.0	13.1	13.1
15	11.4	11.0	8.8	7.8	10.5	9.0	12.9	12.2	31	-	9.4	8.2	-	7.8	-	13.2	-
16	11.4	11.0	8.7	7.8	10.5	9.0	12.9	12.2									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
3-4-57	4:00 AM	27.2						
5-18-57	4:30 PM	23.1						

STATION DESCRIPTION

Sacramento River at Keswick

U. S. Geological Survey Station on right bank of Sacramento River, 0.6 mile downstream from Keswick Dam, about four miles northwest of Redding. Continuous water stage recorder and staff gage with zero set at elevation 479.81 feet, U.S.G.S. Datum. Period of continuous record, 1942 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge, at a temporary site one and one-half miles upstream, 47.2 feet and 186,000 second-feet February 28, 1940, which corresponds to a stage of approximately 44.0 feet at the present site. Formerly presented as station number 1 in Flood Flows and Stages series of reports. Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 243

CLEAR CREEK NEAR IGO
Flood Period November 1956 through June 1957

Daily mean gage height in feet																	
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.9	2.7	2.7	2.9	5.1	3.8		3.7	17	2.7	2.7	3.3	3.1	5.4		4.2	3.2
2	2.9	2.7	2.7	2.9	4.7	3.7		3.7	18	2.7	2.7	3.2	3.1	5.1		6.7	3.2
3	2.8	2.7	2.7	2.9	4.5	3.7	NO	3.6	19	2.7	2.7	3.1	3.1	4.9		5.8	3.2
4	2.8	2.7	2.7	2.8	4.6	3.6	RECORD	3.6	20	2.7	2.7	3.3	3.1	4.7		5.5	3.1
5	2.8	2.7	2.7	2.8	4.9	3.6		3.5	21	2.7	2.7	3.2	3.6	4.6		5.1	3.1
6	2.8	2.7	2.7	2.8	5.0	3.6		3.5	22	2.7	2.7	3.1	3.8	4.4	NO	4.8	3.1
7	2.8	2.7	2.7	2.9	4.8	3.5		3.5	23	2.7	2.7	3.0	7.1	4.2		4.6	3.1
8	2.8	2.7	2.7	3.0	4.7	3.5		3.4	24	2.7	2.7	3.0	8.9	4.1	RECORD	4.4	3.0
9	2.8	2.7	2.7	3.0	5.3	3.5	3.8	3.4	25	2.7	2.7	3.0	7.1	4.1		4.3	3.0
10	2.7	2.7	2.7	3.0	5.0	3.5	3.8	3.4	26	2.7	2.7	3.0	7.3	4.0		4.1	3.0
11	2.7	2.7	2.8	3.0	5.0	3.4	3.7	3.4	27	2.7	2.7	2.9	6.6	3.9		4.1	3.0
12	2.7	2.8	3.2	3.0	5.6	3.5	3.7	3.3	28	2.7	2.7	2.9	5.6	3.9		4.0	3.0
13	2.7	2.8	4.7	3.0	5.2	3.5	4.1	3.3	29	2.7	2.7	2.9	-	3.9		3.9	3.0
14	2.7	2.7	4.5	3.1	4.9	3.9	4.6	3.3	30	2.7	2.7	2.9	-	3.9		3.8	2.9
15	2.7	2.7	4.6	3.1	5.1	3.6	4.4	3.3	31	-	2.7	2.9	-	3.8	-	3.8	-
16	2.7	2.7	3.6	3.1	5.1	3.7	4.2	3.2									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	5:00 AM	5.1	5-18-57	7:00 AM	7.5			
1-14-57	10:00 PM	5.7						
2-24-57	2:30 PM	10.3						
3-12-57	2:00 AM	5.7						

STATION DESCRIPTION

Clear Creek near Igo

U. S. Geological Survey station on left bank of Clear Creek at the Redding-Igo highway bridge one mile northeast of Igo. Continuous water stage recorder and staff gage at an altitude of about 700 feet. Rating curve extended for flows in excess of 12,000 second-feet by velocity-area studies. Period of record 1940 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge, 13.75 feet and 24,500 second-feet, December 21, 1955. Formerly presented as station number 2 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 244

COTTONWOOD CREEK NEAR COTTONWOOD
Flood Period November 1956 through June 1957

Daily mean gage height in feet																	
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.0	2.2	2.3	2.6	4.6	3.7	3.6	3.7	17	2.3	2.3	2.9	2.8	4.7	3.8	3.7	3.1
2	2.8	2.2	2.4	2.6	4.3	3.6	3.7	3.6	18	2.3	2.3	2.8	2.9	4.6	4.7	4.6	3.1
3	2.7	2.2	2.4	2.6	4.1	3.6	3.7	3.6	19	2.3	2.3	2.7	2.9	4.4	4.2	4.8	3.0
4	2.6	2.3	2.4	2.6	4.6	3.6	3.6	3.5	20	2.3	2.3	3.6	2.8	4.3	5.0	4.7	3.0
5	2.6	2.3	2.3	2.5	5.8	3.5	3.6	3.5	21	2.3	2.3	3.8	3.3	4.2	4.2	4.6	3.0
6	2.5	2.3	2.3	2.5	5.9	3.5	3.6	3.4	22	2.3	2.2	3.2	3.6	4.1	4.0	4.4	3.0
7	2.5	2.3	2.3	2.5	5.0	3.5	3.5	3.4	23	2.2	2.2	3.0	6.1	4.0	3.9	4.2	3.0
8	2.5	2.2	2.3	2.6	4.6	3.4	3.6	3.3	24	2.3	2.3	2.9	9.2	3.9	3.8	4.1	3.0
9	2.5	2.2	2.3	2.6	4.5	3.4	3.8	3.3	25	2.3	2.3	2.8	8.4	3.9	3.8	4.0	3.0
10	2.6	2.2	2.3	2.6	4.2	3.4	3.8	3.3	26	2.3	2.3	2.8	6.5	3.8	3.7	3.9	3.0
11	2.4	2.3	2.4	2.6	4.1	3.3	3.9	3.3	27	2.3	2.3	2.7	6.0	3.8	3.6	3.9	2.9
12	2.4	2.3	2.5	2.6	4.7	3.3	3.9	3.2	28	2.3	2.3	2.6	5.1	3.8	3.6	3.8	2.9
13	2.5	2.3	4.0	2.6	4.5	3.3	3.9	3.2	29	2.2	2.3	2.6	-	3.8	3.6	3.8	2.9
14	2.4	2.3	3.5	2.6	4.3	3.6	4.0	3.2	30	2.2	2.3	2.6	-	3.8	3.6	3.8	2.9
15	2.3	2.3	3.5	2.8	4.5	3.8	3.8	3.2	31	-	2.3	2.6	-	3.7	-	3.7	-
16	2.3	2.2	3.1	2.8	4.7	3.6	3.8	3.1									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	10:00 AM	5.2						
1-21-57	3:00 AM	4.2						
2-24-57	8:00 PM	10.8						
4-20-57	4:00 AM	5.8						

STATION DESCRIPTION

Cottonwood Creek near Cottonwood

U. S. Geological Survey station on right bank of Cottonwood Creek two miles east of Cottonwood. Continuous water stage recorder and staff gage at an altitude of about 370 feet. Rating curve extended for flows in excess of 30,000 second-feet. Period of record, 1940 to date. Discharge published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge 15.4 feet and 52,300 second-feet, March 1, 1941. Formerly presented as station number 3 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 245

BATTLE CREEK NEAR COTTONWOOD
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.0	2.8	2.8	2.8	3.9	3.5	3.3	3.6	17	2.9	2.9	2.9	2.9	3.8	3.4	3.2	3.2
2	3.0	2.8	2.8	3.1	3.8	3.4	3.5	3.6	18	2.9	2.8	2.9	2.9	3.6	3.5	4.6	3.2
3	3.0	2.8	2.8	2.9	4.0	3.3	3.4	3.6	19	2.9	2.8	2.8	2.9	3.6	4.0	6.6	3.2
4	3.0	2.8	2.8	2.9	4.9	3.3	3.3	3.5	20	2.8	2.8	3.5	2.9	3.5	3.8	4.6	3.2
5	2.9	2.9	2.8	2.8	5.7	3.3	3.4	3.5	21	2.8	2.8	3.0	3.2	3.6	3.6	4.4	3.2
6	2.9	2.8	2.8	2.8	5.1	3.4	3.4	3.5	22	2.8	2.8	2.9	3.2	3.5	3.5	4.2	3.1
7	2.9	2.8	2.8	2.8	4.4	3.3	3.4	3.5	23	2.9	2.8	2.9	3.6	3.4	3.4	4.0	3.1
8	2.9	2.8	2.8	2.9	4.1	3.3	3.4	3.4	24	2.8	2.8	2.9	6.1	3.4	3.4	3.9	3.1
9	2.9	2.8	2.8	2.9	4.1	3.3	3.4	3.5	25	2.8	2.8	2.9	5.6	3.3	3.3	3.8	3.1
10	2.9	2.8	2.8	2.8	3.9	3.3	3.4	3.5	26	2.8	2.8	2.9	5.0	3.3	3.3	3.8	3.1
11	2.9	2.8	2.8	2.8	3.8	3.3	3.4	3.4	27	2.8	2.8	2.8	4.9	3.3	3.3	3.8	3.1
12	2.9	2.9	3.1	2.8	4.2	3.3	3.3	3.3	28	2.8	2.8	2.9	4.2	3.3	3.2	3.8	3.1
13	2.9	2.9	3.7	2.8	3.8	3.3	3.3	3.3	29	2.8	2.8	2.8	-	3.4	3.3	3.8	3.1
14	2.9	2.9	3.1	2.9	3.7	3.8	3.3	3.3	30	2.8	2.8	2.8	-	3.5	3.3	3.7	3.1
15	2.9	2.9	2.9	2.9	3.6	3.6	3.3	3.2	31	-	2.8	2.8	-	3.5	-	3.6	-
16	2.9	2.8	2.9	2.9	4.1	3.4	3.2	3.2									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	6:00 AM	4.4	5-19-57	5:00 AM	10.1			
1-20-57	4:00 AM	4.5						
2-24-57	6:15 PM	7.5						
3-4-57	10:00 PM	7.1						

STATION DESCRIPTION

Battle Creek near Cottonwood

U. S. Geological Survey station on left bank of Battle Creek nine miles east of Cottonwood. Continuous water stage recorder and staff gage with zero set at elevation 421.47 feet, U.S.G.S. Datum. Period of record 1940 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum known stage established from flood marks, 15.8 feet, December 11, 1937. Maximum recorded stage and discharge, 11.85 feet and 12,800 second-feet, February 6, 1942. Formerly presented as station number 4 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 246

SACRAMENTO RIVER NEAR RED BLUFF
Flood Period November 1956 through June 1957

Daily mean gage height in feet																		
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.9	2.2	1.4	0.9	8.5	1.9	2.6	3.8	17	2.4	2.2	1.6	0.8	5.0	2.1	3.7	2.9
2	2.8	2.2	1.3	0.9	12.3	1.7	2.8	3.8	18	2.4	2.2	1.4	0.9	5.0	2.8	5.4	2.9
3	2.7	2.2	1.3	0.9	13.1	1.6	2.8	3.7	19	2.4	2.2	1.3	0.9	4.6	3.0	11.5	2.9
4	2.7	2.2	1.3	0.8	14.3	1.6	2.6	3.6	20	2.4	2.2	1.6	0.9	4.3	3.8	9.5	2.8
5	2.7	2.3	1.3	0.8	14.8	1.5	2.9	3.5	21	2.3	2.2	1.9	0.9	4.2	3.2	7.5	2.8
6	2.7	2.2	1.2	0.8	14.3	1.4	2.9	3.5	22	2.2	2.1	1.6	1.2	4.0	2.9	5.5	2.8
7	2.7	2.2	1.2	0.7	11.2	1.4	2.9	3.3	23	2.2	2.0	1.3	1.5	3.5	2.8	4.7	2.8
8	2.6	2.2	1.2	0.7	8.3	1.3	2.8	3.1	24	2.2	2.0	1.2	6.3	3.2	2.6	4.7	2.8
9	2.6	2.2	1.2	0.8	6.5	1.2	3.0	3.1	25	2.2	2.0	1.2	12.3	2.9	2.5	4.9	2.8
10	2.5	2.2	1.2	0.8	5.1	1.2	3.3	3.1	26	2.2	2.0	1.1	8.4	2.5	2.4	4.8	2.9
11	2.4	2.2	1.2	0.8	4.4	1.1	3.7	3.0	27	2.2	1.9	*1.0	8.5	2.2	2.3	4.8	2.9
12	2.4	2.2	1.3	0.8	5.5	1.4	3.7	3.0	28	2.2	1.8	*1.0	6.2	2.1	2.3	4.0	2.9
13	2.4	2.2	2.3	0.8	4.6	1.7	3.7	3.0	29	2.2	1.6	*1.0	-	2.0	2.3	4.0	3.1
14	2.4	2.2	2.6	0.8	4.0	2.0	3.9	2.9	30	2.2	1.3	*1.0	-	2.2	2.6	4.0	3.2
15	2.4	2.2	2.1	0.8	3.9	2.1	3.9	2.9	31	-	1.4	0.9	-	1.8	-	3.8	-
16	2.4	2.2	1.9	0.8	5.8	1.9	3.8	2.9									

* Estimated

CREST STAOES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	11:00 PM	2.9						
2-25-57	2:20 AM	14.7						
3-5-57	5:00 AM	15.6						
5-19-57	4:30 AM	13.9						

STATION DESCRIPTION

Sacramento River near Red Bluff

U. S. Geological Survey station on left bank of Sacramento River at lower end of Iron Canyon, one-half mile downstream from the mouth of Sevenmile Creek and 4.6 miles northeaat of Red Bluff. Continuous water stage recorder and ataff gage with zero set at elevation 253.18 feet, U.S.O.S. Datum. Department of Water Reaourcea maintains an automatic short wave radio water stage recorder at this atation. Rating curve extended for flows in excess of 200,000 second-feet by means of velocity-area studies and logarithmic plotting. Feriod of record, 1895 to date. Frior to January 1902 this station was located 7.4 miles upatream at site of Jellys Ferry. Discharges published in U.S.O.S. Water Supply Papers. Maximum recorded stage and discharge, 38.9 feet and 291,000 second-feet, February 28, 1940. Formerly published as Sacramento River near Red Bluff (Iron Canyon), atation number 5 in Flooa Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 247

SACRAMENTO RIVER AT RED BLUFF
Flood Period November 1956 through June 1957

Daily staff gage height in feet (a)

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	5.5	4.5	3.7	3.2	9.8	4.4	5.0	6.5	17	4.7	4.5	3.7	3.0	7.4	4.2	6.4	5.4
2	5.3	4.5	3.6	3.2	15.6	4.1	5.0	6.5	18	4.8	4.6	3.5	3.1	8.0	4.2	7.5	5.4
3	5.2	4.5	3.6	3.0	16.4	4.0	5.4	6.4	19	4.7	4.6	3.4	3.1	7.4	5.6	16.9	5.3
4	5.1	4.4	3.3	3.0	17.7	3.9	5.2	6.4	20	4.8	4.5	4.1	3.1	7.2	5.5	13.1	5.3
5	5.1	4.5	NR	3.0	18.6	4.7	5.4	6.2	21	4.8	4.6	4.0	3.1	7.0	6.0	11.7	5.4
6	5.0	4.6	3.4	3.2	17.8	NR	5.5	6.1	22	4.7	4.5	3.4	4.8	6.8	6.6	9.1	5.3
7	5.0	4.6	3.4	3.0	15.4	NR	5.4	6.1	23	4.5	4.4	3.6	4.2	6.0	6.4	7.8	5.3
8	5.0	4.5	3.4	3.0	12.8	3.6	5.4	5.8	24	4.5	4.3	3.4	9.4	5.8	6.2	7.5	5.8
9	5.0	4.5	3.4	3.0	10.1	3.5	5.6	5.8	25	4.5	4.3	3.3	17.4	5.7	6.0	7.9	5.3
10	5.0	4.5	3.4	3.0	8.4	3.4	5.3	5.6	26	4.5	4.2	3.3	11.1	5.2	4.8	7.8	5.3
11	4.8	4.5	3.4	3.1	7.8	3.4	6.4	5.6	27	4.5	4.3	3.2	13.0	4.6	4.8	7.7	5.4
12	4.8	4.5	NR	3.0	8.3	3.4	6.4	5.5	28	4.5	4.0	3.2	10.3	4.6	4.7	8.0	5.4
13	4.8	4.4	5.8	3.0	7.5	3.9	6.4	5.4	29	4.5	4.0	3.3	-	4.3	4.6	6.8	5.7
14	4.8	4.6	4.8	3.0	6.8	4.0	6.7	5.4	30	4.5	3.5	3.1	-	5.0	5.0	6.8	5.6
15	4.8	4.6	4.1	3.0	6.5	4.6	6.6	5.4	31	-	3.6	3.2	-	4.0	-	6.6	-
16	4.8	4.6	4.0	3.1	10.3	4.2	6.5	5.4									

a Individual daily staff gage readings only.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Sacramento River at Red Bluff

U. S. Weather Bureau station on Sacramento River Bridge near left bank on downstream side of Highway 99 E at Red Bluff. Wire weight and staff gages with zero (low water mark of 1876) set at elevation 236.89 feet, U.S.C.S. Datum. Period of record, 1878 to date. Stages published in reports of U. S. Weather Bureau. Highest recorded stage, 32.2 feet, February 28, 1940. Formerly presented as station number 6 in Flood Flows and Stages series of reports.

TABLE 248

ANTELOPE CREEK NEAR RED BLUFF
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.5	3.4	3.4	3.4	4.6	3.9	3.9	3.9	17	3.4	3.4	3.5	3.5	5.0	4.1	3.7	3.5
2	3.4	3.4	3.4	3.4	4.6	3.8	4.1	3.8	18	3.4	3.4	3.5	3.4	4.7	4.1	4.5	3.5
3	3.4	3.4	3.4	3.4	4.4	3.8	4.0	3.8	19	3.4	3.4	3.5	3.4	4.4	4.5	5.2	3.5
4	3.4	3.4	3.4	3.4	4.7	3.8	3.9	3.8	20	3.4	3.4	4.3	3.4	4.2	4.4	6.2	3.5
5	3.4	3.4	3.4	3.4	5.4	3.8	3.9	3.7	21	3.4	3.4	3.9	3.6	4.2	4.3	5.4	3.4
6	3.4	3.4	3.4	3.4	5.4	3.8	3.9	3.7	22	3.4	3.4	3.6	3.7	4.1	4.2	5.0	3.4
7	3.4	3.4	3.4	3.4	5.0	3.8	3.9	3.7	23	3.4	3.4	3.6	4.5	4.0	4.1	4.7	3.4
8	3.4	3.4	3.4	3.5	4.7	3.8	3.9	3.6	24	3.4	3.4	3.5	8.5	3.9	4.0	4.5	3.4
9	3.4	3.4	3.4	3.5	4.8	3.8	3.9	3.6	25	3.4	3.4	3.5	6.7	3.9	4.0	4.4	3.4
10	3.4	3.4	3.4	3.5	4.6	3.8	4.0	3.7	26	3.4	3.4	3.5	6.0	3.8	3.9	4.3	3.4
11	3.4	3.4	3.4	3.4	4.5	3.8	3.9	3.6	27	3.4	3.4	3.4	5.6	3.8	3.9	4.2	3.4
12	3.4	3.4	3.9	3.4	5.0	3.8	3.8	3.6	28	3.4	3.4	3.4	4.9	3.8	3.9	4.1	3.4
13	3.4	3.4	5.1	3.5	4.6	3.8	3.8	3.6	29	3.4	3.4	3.4	-	3.8	3.9	4.1	3.4
14	3.4	3.4	4.0	3.5	4.4	4.3	3.8	3.6	30	3.4	3.4	3.4	-	4.0	3.9	4.0	3.4
15	3.4	3.4	3.7	3.5	4.4	4.2	3.8	3.5	31	-	3.4	3.4	-	3.9	-	3.9	-
16	3.4	3.4	3.6	3.5	5.0	4.0	3.7	3.5									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	4:30 AM	6.5	3-12-57	8:30 AM	5.4	5-20-57	3:00 AM	6.8
1-20-57	11:00 AM	5.1	3-16-57	10:00 PM	5.5			
2-24-57	2:30 PM	9.8	4-14-57	1:00 PM	4.7			
3-5-57	3:00 PM	5.9	4-19-57	2:30 PM	5.0			

STATION DESCRIPTION

Antelope Creek near Red Bluff

U. S. Geological Survey Station on right bank of Antelope Creek 6.5 miles east of Red Bluff. Continuous water stage recorder and staff gage at an altitude of about 340 feet. Period of record, 1940 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge, 13.9 feet and 10,400 second-feet, February 6, 1942, at original site. Maximum recorded stage and discharge at present site, 12.43 feet and 11,500 second-feet, February 22, 1955. Maximum stage of about 22 feet as taken from flood of December 1937. Formerly presented as station number 7 in Flood Flows and Stages series of reports. Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 249

MILL CREEK NEAR LOS MOLINOS
Flood Period November 1956 through June 1957

Daily mean gage height in feet																	
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	1.8	1.6	1.6	1.7	3.2	2.3	2.4	2.8	17	1.6	1.6	1.7	1.8	3.2	2.3	2.4	2.1
2	1.7	1.6	1.6	1.7	3.1	2.1	2.7	2.8	18	1.6	1.6	1.7	1.8	2.8	2.4	4.8	2.1
3	1.7	1.6	1.6	1.7	3.0	2.1	2.4	2.7	19	1.6	1.6	1.7	1.8	2.5	2.5	4.8	2.1
4	1.7	1.6	1.6	1.7	3.2	2.2	2.3	2.6	20	1.6	1.6	2.2	1.8	2.4	2.4	4.7	2.1
5	1.7	1.6	1.6	1.7	4.1	2.2	2.5	2.6	21	1.6	1.6	1.9	2.0	2.5	2.3	3.9	2.1
6	1.7	1.6	1.6	1.7	4.1	2.2	2.5	2.6	22	1.6	1.6	1.8	2.3	2.3	2.3	3.5	2.1
7	1.7	1.6	1.6	1.7	3.6	2.2	2.6	2.5	23	1.6	1.6	1.7	3.8	2.2	2.2	3.1	2.0
8	1.7	1.6	1.6	1.7	3.2	2.1	2.5	2.5	24	1.6	1.6	1.7	7.9	2.1	2.2	2.9	2.1
9	1.7	1.6	1.6	1.7	3.4	2.1	2.4	2.5	25	1.6	1.6	1.7	5.9	2.1	2.2	2.8	2.0
10	1.7	1.6	1.6	1.7	3.0	2.1	2.4	2.5	26	1.6	1.6	1.7	5.6	2.0	2.2	2.8	2.1
11	1.7	1.7	1.7	1.7	2.8	2.1	2.3	2.4	27	1.6	1.6	1.7	4.8	2.0	2.2	2.9	2.1
12	1.7	1.7	2.1	1.7	3.3	2.1	2.3	2.4	28	1.6	1.6	1.7	3.7	2.0	2.2	2.9	2.1
13	1.7	1.7	3.0	1.7	2.9	2.1	2.2	2.4	29	1.6	1.6	1.7	-	2.2	2.3	2.9	2.0
14	1.7	1.7	2.0	1.8	2.6	2.6	2.3	2.2	30	1.6	1.6	1.7	-	2.2	2.4	2.8	2.0
15	1.6	1.7	1.9	1.8	2.6	2.3	2.2	2.2	31	-	1.6	1.7	-	2.3	-	2.8	-
16	1.6	1.7	1.8	1.8	3.4	2.2	2.2	2.2									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	5:00 AM	3.6						
1-20-57	6:00 AM	2.6						
2-24-57	12:30 PM	10.1						
5-18-57	4:00 PM	5.9						

STATION DESCRIPTION

Mill Creek near Los Molinos

U. S. Geological Survey station on right bank of Mill Creek five miles northeast of Los Molinos. Continuous water stage recorder and staff gage at an altitude of about 420 feet. Rating curve extended for flows in excess of 3,900 second-feet by slope area studies. Period of record 1928 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum observed stage and discharge, 23.4 feet and 23,000 second-feet (from rating curve extended above 3,900 c.f.s. on basis of slope area studies), December 11, 1937. Formerly presented as station number 8 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 250

THOMES CREEK AT PASKENTA
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.8	2.5	2.5	2.6	3.4	2.8	2.7	2.6	17	2.5	2.6	2.6	3.3	3.0	2.8	2.6	2.1
2	2.8	2.4	2.5	2.6	3.2	2.7	2.8	2.6	18	2.5	2.6	2.6	3.3	2.9	2.9	4.1	2.1
3	2.8	2.4	2.5	2.5	3.0	2.7	2.6	2.5	19	2.5	2.6	2.7	3.2	2.9	2.8	3.7	2.1
4	2.8	2.4	2.4	2.6	3.2	2.8	2.6	2.5	20	2.5	2.5	3.8	3.1	2.9	2.8	3.4	2.0
5	2.8	2.5	2.4	2.6	4.4	2.8	2.6	2.4	21	2.5	2.5	3.0	3.2	2.9	2.7	3.3	2.0
6	2.7	2.5	2.4	2.6	4.2	2.8	2.9	2.4	22	2.5	2.5	2.8	3.7	2.8	2.7	3.1	2.0
7	2.7	2.5	2.4	2.6	3.8	2.7	2.8	2.4	23	2.5	2.5	2.7	5.5	2.7	2.6	3.0	2.0
8	2.7	2.4	2.5	2.6	3.5	2.6	2.8	2.3	24	2.5	2.5	2.7	7.0	2.7	2.6	2.9	2.0
9	2.6	2.5	2.4	2.6	3.4	2.6	2.9	2.3	25	2.5	2.5	2.6	6.3	2.7	2.6	2.8	2.0
10	2.6	2.5	2.4	2.6	3.2	2.6	2.7	2.3	26	2.5	2.5	2.6	5.2	2.8	2.6	2.8	1.9
11	2.6	2.7	2.5	2.6	3.1	2.6	2.6	2.2	27	2.5	2.5	2.7	5.0	2.8	2.6	2.8	1.9
12	2.6	2.8	2.7	2.6	3.4	2.6	2.6	2.2	28	2.5	2.5	2.6	3.7	2.8	2.6	2.8	1.9
13	2.6	2.7	3.3	2.7	3.2	2.5	2.6	2.2	29	2.5	2.5	2.6	-	2.9	2.7	2.7	1.9
14	2.6	2.7	2.9	3.2	3.1	3.2	2.6	2.2	30	2.5	2.5	2.6	-	2.9	2.8	2.7	1.9
15	2.5	2.6	2.8	3.1	3.2	2.9	2.6	2.1	31	-	2.5	2.6	-	2.8	-	2.7	-
16	2.5	2.6	2.7	3.2	3.1	2.8	2.5	2.1									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-12-57	12:00 Noon	3.6	4-14-57	6:00 AM	3.9			
1-20-57	4:30 AM	4.5	5-18-57	11:00 AM	4.7			
2-24-57	3:00 PM	7.8						
3-5-57	2:00 AM	4.8						

STATION DESCRIPTION

Thomes Creek at Paskenta

U. S. Geological Survey station on left bank of Thomes Creek one-half mile upstream from Paskenta. Continuous water stage recorder and staff gage at an altitude of about 750 feet. Staff gage only, 1920 to 1930, at Paskenta, one-half mile below present site. Water stage recorder and staff gage, 1930 to 1942, at a point 1,000 feet upstream from present site. Period of record October to December 1920 (gage height only), January 1921 to date. Rating curves extended for flows in excess of 7,000 second-feet for all three sites. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge at original site, 10.5 feet and 16,600 second-feet, March 26, 1928. Maximum recorded stage and discharge at site used from 1930 to 1942, 16.8 feet and 16,500 second-feet, December 10, 1937. Maximum recorded stage and discharge at present site 12.14 feet and 23,500 second-feet, December 21, 1955. Formerly presented as station number 9 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 251

DEER CREEK NEAR VINA
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.8	2.6	2.5	2.6	4.2	3.4	3.1	3.2	17	2.6	2.6	2.7	2.8	4.1	3.6	3.0	2.7
2	2.7	2.6	2.5	2.6	4.2	3.3	3.5	3.1	18	2.6	2.6	2.6	2.8	3.8	3.6	4.4	2.7
3	2.7	2.6	2.5	2.6	4.1	3.2	3.4	3.1	19	2.6	2.6	2.6	2.8	3.7	3.6	4.9	2.7
4	2.7	2.6	2.5	2.5	4.2	3.2	3.2	3.0	20	2.6	2.6	3.2	2.8	3.6	3.6	4.8	2.7
5	2.7	2.6	2.5	2.5	5.1	3.2	3.2	3.0	21	2.6	2.6	2.9	2.9	3.7	3.5	4.5	2.6
6	2.6	2.6	2.5	2.6	5.2	3.2	3.1	2.9	22	2.6	2.5	2.7	3.0	3.5	3.4	4.2	2.6
7	2.6	2.6	2.5	2.6	4.8	3.2	3.1	2.9	23	2.6	2.5	2.7	4.9	3.4	3.4	4.0	2.6
8	2.6	2.5	2.5	2.7	4.4	3.1	3.1	2.9	24	2.6	2.5	2.6	8.5	3.3	3.3	3.8	2.6
9	2.6	2.6	2.5	2.6	4.6	3.1	3.2	2.9	25	2.6	2.5	2.6	6.9	3.3	3.2	3.6	2.6
10	2.6	2.6	2.5	2.6	4.3	3.1	3.2	2.9	26	2.6	2.5	2.6	5.9	3.2	3.2	3.5	2.6
11	2.6	2.6	2.6	2.6	4.1	3.1	3.1	2.8	27	2.6	2.5	2.5	5.6	3.2	3.1	3.4	2.6
12	2.6	2.7	3.1	2.6	4.3	3.0	3.1	2.8	28	2.6	2.5	2.6	4.7	3.2	3.1	3.4	2.6
13	2.6	2.7	4.2	2.6	4.1	3.0	3.0	2.8	29	2.6	2.5	2.6	-	3.3	3.1	3.4	2.6
14	2.6	2.6	3.2	2.7	4.0	3.7	3.1	2.8	30	2.6	2.5	2.6	-	3.4	3.1	3.3	2.6
15	2.6	2.6	2.9	2.8	3.9	3.4	3.1	2.8	31	-	2.5	2.6	-	3.4	-	3.3	-
16	2.6	2.6	2.7	2.8	4.3	3.3	3.0	2.7									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	2:00 PM	4.6						
2-24-57	8:30 AM	10.0						
4-14-57	12:00 Noon	4.0						
5-18-57	8:00 PM	5.2						

STATION DESCRIPTION

Deer Creek near Vina

U. S. Geological Survey station on left bank of Deer Creek nine miles northeast of Vina and 0.8 mile upstream from a concrete diversion dam. Continuous water stage recorder and staff gage at an altitude of about 480 feet. Rating curve extended for flows in excess of 7,000 second-feet. Periods of record, 1911 to 1915, 1920 to 1937 and 1939 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge, 19.2 feet and 23,800 second-feet, December 10, 1937. Formerly presented as station number 10 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 252

SACRAMENTO RIVER AT VINA BRIDGE
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	68.0	67.3	66.6	66.2	72.8	67.4	67.8	69.1	17	67.5	67.3	66.7	66.2	70.9	67.4	68.9	67.9
2	67.9	67.3	66.6	66.3	76.8	67.2	68.0	69.0	18	67.4	67.3	66.6	66.3	70.9	68.0	69.9	67.9
3	67.8	67.3	66.5	66.3	78.0	67.1	68.1	68.9	19	67.4	*67.2	66.6	66.3	70.3	68.3	*75.7	67.8
4	67.8	67.3	66.5	66.2	78.9	67.0	67.9	68.8	20	67.4	*67.2	67.3	66.3	69.9	69.2	75.4	67.8
5	67.7	67.4	66.5	66.2	80.0	66.9	68.0	68.7	21	67.4	*67.2	67.4	66.3	69.8	68.8	74.2	67.8
6	67.7	67.3	66.5	66.2	79.9	66.9	68.1	68.6	22	67.3	*67.2	66.8	67.2	69.5	68.4	71.9	67.8
7	67.7	67.3	66.4	66.2	78.0	66.8	68.1	68.5	23	67.3	*67.1	66.6	68.9	69.2	68.1	70.6	67.8
8	67.7	67.3	66.4	66.2	74.7	66.8	68.1	68.3	24	67.3	*67.1	66.5	75.6	68.6	68.0	70.2	67.8
9	67.7	67.3	66.4	66.2	72.9	66.7	68.2	68.1	25	67.3	*67.1	66.5	79.9	68.4	67.9	70.4	67.7
10	67.6	67.3	66.5	66.2	71.3	66.6	68.4	68.2	26	67.3	*67.1	66.4	75.4	68.0	67.7	70.3	67.8
11	67.5	67.3	66.5	66.2	70.2	66.6	68.8	68.1	27	67.3	*67.0	66.3	75.6	67.7	67.6	70.2	67.8
12	67.5	67.3	66.6	66.1	71.1	66.7	68.8	68.1	28	67.3	66.9	66.3	72.8	67.6	67.6	70.1	67.8
13	67.5	67.3	69.2	66.1	70.7	66.9	68.8	68.0	29	67.3	66.9	66.3	-	67.4	67.5	69.0	67.9
14	67.5	67.3	68.2	66.2	69.8	67.2	69.0	68.0	30	67.3	66.6	66.3	-	67.8	67.8	69.4	68.1
15	67.5	67.3	67.2	66.2	69.5	67.7	69.0	68.0	31	-	66.6	66.3	-	67.4	-	69.2	-
16	67.5	67.3	67.1	66.2	72.0	67.3	68.9	67.9									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	9:00 PM	69.8	3-12-57	6:00 PM	72.1			
1-20-57	4:00 PM	68.2	3-16-57	11:00 AM	73.1			
2-25-57	10:20 AM	80.9	5-19-57	11:30 PM	77.7			
3-5-57	12:30 PM	80.5						

STATION DESCRIPTION

Sacramento River at Vina Bridge

U. S. Bureau of Reclamation station maintained by Department of Water Resources on right bank of Sacramento River 50 feet upstream from Vina Bridge. Continuous water stage recorder and staff gage with zero set at elevation 100 feet, U.S.E.D. Datum. Period of record 1945 to date. Stages since 1950 published in reports of Department of Water Resources. Maximum recorded stage and discharge, 87.7 feet and 146,000 second-feet, December 28, 1951. Pormerly presented as station number 10A in Plood Plows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 253

SACRAMENTO RIVER AT HAMILTON CITY
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June
1	29.4	28.4	27.8	27.4	33.1	28.7	28.2	29.6	17	28.6	28.6	28.1	27.4	32.1	28.0	29.3	28.4
2	29.1	28.4	27.8	27.5	36.5	28.5	28.3	29.5	18	28.6	28.6	27.9	27.4	32.1	28.5	29.9	28.3
3	29.0	28.3	27.8	27.4	38.0	28.3	28.6	29.4	19	28.6	28.6	27.8	27.4	31.5	29.1	35.2	28.3
4	28.9	28.4	27.7	27.3	38.8	28.1	28.4	29.4	20	28.6	28.6	28.2	27.4	31.2	29.8	35.7	28.2
5	28.9	28.5	27.7	27.3	39.9	28.0	28.4	29.2	21	28.6	28.6	28.8	27.5	31.0	29.7	34.7	28.2
6	28.9	28.5	27.7	27.2	39.9	27.8	28.6	29.1	22	28.4	28.6	28.2	28.1	30.8	29.2	32.6	28.2
7	28.9	28.4	27.7	27.2	38.8	27.7	28.6	29.0	23	28.4	28.4	27.9	29.4	30.6	28.9	31.3	28.2
8	28.8	28.4	27.7	27.3	35.8	27.6	28.6	28.8	24	28.4	28.4	27.7	*35.1	30.0	28.7	30.8	28.2
9	28.8	28.4	27.7	27.3	34.0	27.4	28.7	28.7	25	28.4	28.4	27.7	40.2	29.8	28.5	30.8	28.2
10	28.8	28.4	27.7	27.3	32.7	27.3	28.9	28.7	26	28.4	28.3	27.6	40.4	29.6	28.3	30.8	28.2
11	28.7	28.6	27.7	27.3	31.6	27.2	29.2	28.6	27	28.3	28.3	27.5	36.2	29.2	28.2	30.7	28.2
12	28.7	28.6	27.8	27.3	32.0	27.1	29.4	28.5	28	28.3	28.2	27.5	33.9	29.0	28.0	30.6	28.2
13	28.7	28.6	29.8	27.3	32.0	27.4	29.4	28.5	29	28.4	28.2	27.5	-	28.8	28.0	29.5	28.3
14	28.6	28.6	29.8	27.3	31.2	27.6	29.5	28.4	30	28.4	27.9	27.5	-	29.1	28.1	29.8	28.4
15	28.6	28.6	28.6	27.3	30.8	28.3	29.6	28.4	31	-	27.8	27.4	-	28.9	-	29.7	-
16	28.6	28.6	28.4	27.4	32.6	28.0	29.4	28.4									

* Estimated

CREST STAOES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	1:30 AM	30.8	5-19-57	5:30 PM	37.4			
1-20-57	10:30 PM	29.3						
2-25-57	3:25 PM	41.0						
3-5-57	6:00 PM	40.4						

STATION DESCRIPTION

Sacramento River at Hamilton City

D. S. Bureau of Reclamation station maintained by Department of Water Resources on the left bank of Sacramento River one mile northeast of Hamilton City. Prior to October 1945, U. S. Weather Bureau staff gage only with zero set at elevation 127.9 feet, U.S.E.D. Datum. Gage and recorder subsequently set on U.S.E.D. Datum. Period of record 1927 to date. This station was destroyed January 15,1956 and rebuilt June 19, 1956. Stages published in reports of U. S. Weather Bureau and Department of Water Resources. Highest recorded stage, 22.8 feet (150.7 feet, U.S.E.D. Datum), December 11, 1937. Maximum estimated discharge, 350,000 second-feet, February 28, 1940, with a stage of 22.6 feet (150.5 feet, U.S.E.D. Datum). Formerly presented as station number 11 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 254

BIG CHICO CREEK NEAR CHICO
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.7	2.5	2.5	2.6	4.0	3.0	2.8	2.8	17	2.5	2.5	2.9	2.9	3.8	3.4	2.8	2.5
2	2.6	2.5	2.5	2.6	3.8	2.9	3.1	2.8	18	2.5	2.5	2.8	2.8	3.7	3.7	5.5	2.5
3	2.6	2.5	2.5	2.6	3.7	2.8	3.0	2.8	19	2.5	2.5	2.8	2.8	3.6	3.6	5.7	2.5
4	2.6	2.5	2.5	2.6	4.0	2.8	2.9	2.7	20	2.5	2.5	3.2	2.8	3.4	3.5	4.8	2.4
5	2.6	2.6	2.5	2.6	4.5	2.8	2.9	2.7	21	2.5	2.5	3.0	3.0	3.4	3.4	4.3	2.4
6	2.6	2.6	2.5	2.6	4.5	2.8	2.8	2.7	22	2.5	2.5	2.8	3.3	3.2	3.3	3.9	2.4
7	2.5	2.6	2.5	2.6	4.2	2.7	2.8	2.6	23	2.5	2.5	2.8	5.4	3.1	3.2	3.7	2.4
8	2.5	2.5	2.5	2.9	3.9	2.7	2.8	2.6	24	2.5	2.5	2.7	8.8	3.1	3.1	3.5	2.4
9	2.5	2.5	2.6	2.8	4.0	2.7	2.9	2.6	25	2.5	2.5	2.7	6.7	3.0	3.0	3.4	2.4
10	2.5	2.5	2.5	2.8	3.8	2.7	2.9	2.6	26	2.5	2.5	2.7	5.4	3.0	3.0	3.2	2.4
11	2.5	2.6	2.6	2.8	3.7	2.6	2.9	2.6	27	2.5	2.5	2.6	5.1	2.9	2.9	3.2	2.4
12	2.5	2.6	3.2	2.8	3.9	2.6	2.8	2.6	28	2.5	2.5	2.6	4.4	2.9	2.9	3.1	2.4
13	2.5	2.6	4.2	2.8	3.7	2.6	2.8	2.6	29	2.5	2.5	2.6	-	2.9	2.9	3.0	2.4
14	2.5	2.5	3.6	2.9	3.6	3.4	2.9	2.6	30	2.5	2.5	2.6	-	3.0	2.9	3.0	2.4
15	2.5	2.6	3.2	2.9	3.7	3.2	2.9	2.6	31	-	2.5	2.6	-	3.0	-	2.9	-
16	2.5	2.6	3.0	2.9	3.9	3.1	2.9	2.5									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	9:30 AM	4.6						
2-24-57	9:30 AM	10.7						
4-14-57	8:30 AM	4.0						
5-18-57	3:30 PM	7.4						

STATION DESCRIPTION

Big Chico Creek near Chico

U. S. Geological Survey station on right bank of Chico Creek seven miles northeast of Chico. Continuous water stage recorder and staff gage with zero set at elevation 300 feet, U.S.G.S. Datum from topographic map. Rating curve extended by means of velocity-area studies for flows in excess 5,000 second-feet. Discharges published in U.S.G.S. Water Supply Papers. Period of record, 1930 to date. Maximum recorded stages and discharge 16.6 feet and 8,260 second-feet, December 10, 1937 (site and datum then in use). Formerly published as Chico Creek near Chico, station number 12 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 255

STONY CREEK NEAR HAMILTON CITY
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	5.6				7.4	6.1	4.7	5.0	17			NF		6.6	5.7	4.6	4.7
2	5.5				7.4	6.0	4.7	4.8	18			NF	NO	6.6	6.3	4.8	4.6
3	5.3				7.2	5.8	4.8	4.8	19			NF		6.4	6.6	5.8	a 4.4
4	5.2				7.2	5.6	4.8	4.7	20			a 7.1	FLOW	6.4	6.6	6.3	
5	5.1				7.6	5.2	4.8	4.7	21			6.4		6.5	6.5	6.4	
6	5.0	NO	NO	NO	8.1	4.9	4.9	4.6	22	NO	NO	5.9		6.6	6.4	6.6	
7	a 4.8				8.1	4.9	4.9	4.7	23			5.7	a 7.6	6.6	6.3	6.4	
8		FLOW	FLOW	FLOW	7.7	4.8	4.9	4.8	24	FLOW	FLOW	5.5	9.6	6.5	6.2	6.2	NO
9					7.0	4.7	5.1	4.6	25			5.4	10.1	6.4	6.1	5.9	FLOW
10					6.8	4.5	5.1	4.7	26			5.3	8.3	6.3	5.9	5.7	
11	NO				6.6	4.5	5.2	4.6	27			5.1	8.0	6.2	5.4	5.5	
12	FLOW				6.6	4.4	5.1	4.4	28			a 5.0	7.5	6.2	5.1	5.3	
13					6.7	4.7	5.1	4.4	29			NF	-	6.1	4.9	5.1	
14					6.5	4.7	4.9	a 4.3	30			NF	-	6.2	4.8	5.2	
15					6.4	5.1	4.8	4.4	31	-		NF	-	6.2	-	5.0	-
16					6.8	5.5	4.7	•4.6									

a Period of partial flow

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-20-57	6:30 PM	7.2						
2-24-57	10:00 PM	10.7						
3-6-57	3:00 PM	8.2						

STATION DESCRIPTION

Stony Creek near Hamilton City

U. S. Geological Survey station on right bank of Stony Creek 2.3 miles southwest of Hamilton City. Continuous water stage recorder and staff gage with zero set at an altitude of about 150 feet. This station was moved during February 1946 from a location three miles upstream with zero of gage set at elevation 186.61 feet, U.S.E.D. Datum of 1929. Prior to November 1944 zero of gage was set at elevation 188.11, U.S.E.D. Datum. Rating curves extended for flows in excess of 30,000 second-feet. Period of record 1941 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge, 6.35 feet and 37,500 second-feet March 1, 1941 at former site. Maximum recorded stage and discharge at present site, 15.96 feet and 22,100 second-feet, December 22, 1955 Formerly presented as station number 13 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 256

STONY CREEK AT ST. JOHN
Flood Period November 1956 through June 1957

Daily staff gage height in feet (a)

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1								
2								
3								
4								
5								
6	NO	NO	NO	NO	NO	NO	NO	NO
7								
8	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW
9								
10								
11								
12								
13								
14								
15								
16								
17			NF					
18			NF					
19			NF					
20			NF					
21			1.4					
22	NO	NO	|	NO	NO	NO	NO	NO
23			|					
24	FLOW	FLOW	|	FLOW	FLOW	FLOW	FLOW	FLOW
25			NO					
26			FLOW					
27			|					
28			|					
29			|					
30			|					
31			|					

a Individual daily staff gage readings only.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-21-57	4:00 PM	1.4						

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Stony Creek at St. John

U. S. Weather Bureau station near right bank of Stony Creek on downstream side of highway bridge at St. John. Staff gage with zero set at elevation 136.9 feet, U.S.E.D. Datum. Measurements during floods obtained on auxiliary staff gage located near left bank on upstream side of bridge. Period of record 1906 to date. Stages published in reports of U. S. Weather Bureau. Highest recorded stage, 13.9 feet, Febrasry 28, 1940. Formerly presented as station number 14 in Flood Flows and Stages series of reports.

TABLE 257

SACRAMENTO RIVER AT ORD FERRY
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	99.2	97.8	97.2	96.7	103.4	98.4	97.7	99.4	17	98.1	98.1	97.6	96.7	102.5	97.4	99.0	97.8
2	98.8	97.8	97.2	96.8	106.2	98.2	97.8	99.3	18	98.1	98.1	97.3	96.7	102.2	98.0	99.4	97.8
3	98.6	97.8	97.1	96.7	108.0	97.9	98.1	99.2	19	98.1	98.1	97.2	96.7	101.7	98.8	*104.0	97.8
4	98.5	97.8	97.1	96.6	108.8	97.7	98.0	99.1	20	98.1	98.1	97.6	96.7	101.3	99.3	106.0	97.7
5	98.5	97.9	97.0	96.5	110.0	97.5	97.8	98.9	21	98.1	98.1	98.5	96.7	101.1	99.7	105.0	97.7
6	98.4	98.0	97.0	96.5	110.4	97.3	98.1	98.8	22	98.0	98.0	97.8	97.2	100.9	99.0	103.0	97.6
7	98.4	97.9	97.0	96.5	109.8	97.2	98.1	98.7	23	97.9	97.9	97.4	98.8	100.7	98.7	101.5	97.6
8	98.4	97.9	97.0	96.5	106.7	97.1	98.1	98.5	24	97.9	97.8	97.1	104.6	100.1	98.5	100.9	97.6
9	98.4	97.9	97.0	96.6	104.6	96.8	98.2	98.2	25	97.9	97.8	97.1	110.7	99.8	98.2	100.8	97.6
10	98.4	97.9	97.0	96.6	103.3	96.7	98.5	98.2	26	97.9	97.8	97.0	108.5	99.5	98.0	100.8	97.6
11	98.2	98.0	97.0	96.1	102.0	96.5	98.8	98.2	27	97.8	97.8	96.9	106.6	99.1	97.8	100.6	97.6
12	98.2	98.1	97.1	96.5	101.9	96.4	99.1	98.1	28	97.8	97.7	96.8	104.5	98.8	97.6	100.6	97.6
13	98.2	98.1	*99.0	96.5	102.4	96.7	99.1	98.0	29	97.8	97.6	96.8	-	98.5	97.5	99.5	97.7
14	98.1	98.1	99.9	96.6	101.5	96.9	99.2	98.0	30	97.8	97.4	96.8	-	98.8	97.6	99.7	97.9
15	98.1	98.1	98.2	96.6	101.0	97.7	99.3	97.9	31	-	97.2	96.7	-	98.6	-	99.5	-
16	98.1	98.1	98.1	96.7	102.3	97.5	99.2	97.9									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	4:00 AM	100.7	5-19-57	11:00 PM	106.8			
1-21-57	3:00 AM	98.9	4-21-57	2:00 AM	100.0			
2-25-57	6:30 PM	111.5						
3-5-57	11:30 PM	110.7						

STATION DESCRIPTION

Sacramento River at Ord Ferry

Department of Water Resources station on right bank of Sacramento River at Ord Ferry. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Department of Water Resources maintains an automatic short wave radio water stage broadcaster at this station. A relationship has been established between stages at this station and total flows entering the Sacramento River Flood Control Project near Chico Landing, including the total flow in Sacramento River below the mouth of Stony Creek and in nearby sloughs out of the main River channel into Butte Basin. Period of record, 1921 to 1927 and 1937 to 1944 during flood seasons only. Continuous record, 1944 to date. Maximum recorded stage and discharge 121.7 feet and 370,000 second-feet, February 28,1940. Formerly presented as station number 15 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 258

SACRAMENTO RIVER AT BUTTE CITY
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Peb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Peb.	Mar.	Apr.	May	June
1	73.1	71.6	71.1	70.6	77.8	72.4	71.5	73.3	17	71.9	71.8	71.5	70.6	77.2	71.2	72.9	71.7
2	72.6	71.6	71.0	70.6	80.7	72.2	71.6	73.2	18	71.9	71.8	71.2	70.6	76.6	71.6	73.0	71.6
3	72.4	71.6	71.0	70.6	84.0	22.0	71.9	73.1	19	71.8	71.8	71.1	70.6	76.1	72.4	76.6	71.6
4	72.3	71.6	71.0	70.5	85.4	71.8	71.8	73.0	20	71.8	71.8	71.2	70.6	75.6	72.8	81.3	71.5
5	72.3	71.7	70.9	70.4	86.8	71.6	71.7	72.8	21	71.8	71.8	71.3	70.6	75.4	73.5	80.4	71.5
6	72.2	71.7	70.9	70.4	87.9	71.4	71.9	72.7	22	71.8	71.8	71.8	70.9	75.1	73.0	78.2	71.4
7	72.2	71.7	70.9	70.4	87.8	71.2	71.9	72.6	23	71.7	71.7	71.3	72.0	74.9	72.5	76.0	71.4
8	72.2	71.7	70.9	70.4	84.9	71.1	71.9	72.4	24	71.7	71.6	71.0	76.8	74.3	72.3	75.1	71.4
9	72.2	71.6	70.9	70.5	80.8	70.9	72.0	72.2	25	71.7	71.6	70.9	85.5	74.0	72.0	74.8	71.4
10	72.2	71.6	70.9	70.5	78.4	70.7	72.2	72.1	26	71.7	71.6	70.8	86.3	73.7	71.8	74.8	71.4
11	72.1	71.8	70.9	70.5	76.8	70.6	72.5	72.1	27	71.6	71.6	70.8	83.0	73.2	71.6	74.6	71.5
12	72.0	71.8	71.0	70.4	76.3	70.4	72.8	72.0	28	71.6	71.5	70.7	81.0	72.8	71.4	74.5	71.4
13	72.0	71.8	72.2	70.4	77.0	70.6	72.8	71.9	29	71.6	71.4	70.7	-	72.6	71.3	73.7	71.4
14	71.9	71.8	73.9	70.4	76.0	70.8	72.9	71.8	30	71.6	71.3	70.6	-	72.6	71.3	73.6	71.6
15	71.9	71.8	72.2	70.5	75.4	71.4	73.1	71.7	31	-	71.0	70.6	-	72.7	-	73.4	-
16	71.9	71.8	71.9	70.6	76.2	71.4	73.0	71.7									

CREST STAOES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	8:00 AM	74.4						
2-26-57	4:00 AM	87.7						
3-6-57	11:00 PM	88.0						
5-20-57	7:00 AM	81.7						

STATION DESCRIPTION

Sacramento River at Butte City

U. S. Geological Survey and Department of Water Resources cooperative station on left bank of Sacramento River 0.5 mile south of Butte City, about 200 feet upstream from the State highway bridge. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Prior to December 1930 this station was located 0.5 mile upstream on same datum. Discharges from 1921 to date (summer flows only 1921 to 1940) published in U.S.G.S. Water Supply Papers. Flood season stages from 1929 to date presented in reports of Department of Water Reaources. Maximum recorded atage and discharge, 96.9 feet and 170,000 second-feet, February 7, 1942. Formerly presented as station number 16 in Plood Flows and Stages series of reports.

Note: No measurements are included; for corresponding dischargea see stream flow table for this station.

TABLE 259

SACRAMENTO RIVER OPPOSITE MOULTON WEIR
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	59.9	58.1	57.5	57.0	68.6	59.0	57.7	60.0	17	58.4	58.3	58.0	56.9	66.2	57.6	59.4	58.0
2	59.2	58.1	57.4	57.0	69.6	58.8	57.8	59.8	18	58.4	58.3	57.7	57.0	65.0	57.9	59.4	57.9
3	58.9	58.1	57.4	57.0	74.0	58.5	58.1	59.8	19	58.3	58.3	57.5	57.0	64.4	58.8	62.7	57.9
4	58.8	58.1	57.4	56.9	75.6	58.3	58.2	59.6	20	58.3	58.3	57.5	57.0	63.5	59.2	70.6	57.8
5	58.8	58.1	57.3	56.8	76.7	58.1	58.0	59.4	21	58.3	58.3	58.6	57.0	63.1	60.1	70.9	57.8
6	58.7	58.2	57.3	56.8	77.7	57.9	58.1	59.2	22	58.3	58.3	58.4	57.2	62.7	59.6	68.8	57.8
7	58.7	58.2	57.3	56.8	77.9	57.7	58.2	59.1	23	58.2	58.2	57.7	58.2	62.3	59.0	64.9	57.7
8	58.7	58.1	57.3	56.7	76.4	57.6	58.2	58.9	24	58.1	58.1	57.5	63.0	61.7	58.7	62.7	57.7
9	58.7	58.1	57.3	56.8	72.2	57.4	58.3	58.6	25	58.2	58.1	57.3	73.4	61.1	58.5	61.9	57.7
10	58.7	58.1	57.3	56.9	69.0	57.2	58.5	58.5	26	58.1	58.1	57.2	76.8	60.7	58.2	62.0	57.6
11	58.6	58.2	57.3	56.8	66.1	57.0	58.8	58.5	27	58.1	58.0	57.2	74.0	60.2	57.9	61.7	57.7
12	58.5	58.3	57.3	56.8	64.4	56.8	59.2	58.4	28	58.1	58.0	57.1	72.3	59.7	57.7	61.5	57.7
13	58.4	58.3	58.1	56.8	65.5	56.9	59.3	58.2	29	58.1	57.9	57.0	-	59.4	57.6	60.8	57.7
14	58.4	58.3	60.8	56.8	64.3	57.1	59.3	58.2	30	58.1	57.8	57.0	-	59.3	57.6	60.2	57.9
15	58.4	58.3	59.0	56.8	63.1	57.6	59.5	58.1	31	-	57.5	57.0	-	59.4	-	60.2	-
16	58.4	58.3	58.4	56.9	63.4	57.9	59.6	58.0									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	1:00 PM	61.2	4-21-57	12:00 Noon	60.3			
1-21-57	1:00 PM	59.0	5-20-57	9:00 PM	71.3			
2-26-57	9:45 AM	77.3						
3-7-57	8:00 AM	77.9						

STATION DESCRIPTION

Sacramento River opposite Moulton Weir

Department of Water Resources station previously located on right bank of Sacramento River at Gordon Ranch pumping plant, one-quarter mile upstream from Moulton Weir, has been moved one-quarter mile downstream opposite Moulton Weir, December 1955. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Flood season stages from 1922 to date published in reports of Department of Water Resources. Maximum recorded stage, 85.5 feet, February 7, 1942. Formerly published as Sacramento River at Gordon Pump, station number 17 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 260

SACRAMENTO RIVER AT MOULTON WEIR
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1					NF			
2					NF			
3					NF			
4					NF			
5					*77.0			
6	NO	NO	NO	NO	77.7	NO	NO	NO
7					77.8			
8	FLOW	FLOW	FLOW	FLOW	*77.3	FLOW	FLOW	FLOW
9								
10								
11					NO			
12					FLOW			
13								
14								
15								
16								
17								
18								
19								
20					NO			
21					FLOW			
22	NO	NO	NO			NO	NO	NO
23								
24	FLOW	FLOW	FLOW			FLOW	FLOW	FLOW
25							RECORD	
26					*77.1			
27					NO			
28								
29					FLOW			
30								
31								

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-26-57	9:15 AM	77.3						
3-7-57	2:00 AM	77.7						

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Sacramento River at Moulton Weir

U. S. Department of the Army and Department of Water Resources cooperative station on left bank of Sacramento River near south end of Moulton Weir. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Crest of weir at elevation 76.8 feet. Period of record 1935 to date. Stages during period of flow over weir published in reports of Department of Water Resources. Maximum recorded stage, 83.8 feet, February 7, 1942. Formerly presented as station number 18 in Flood Flows and Stages series of reports.

TABLE 261

COLUSA WEIR FROM SACRAMENTO RIVER TO BUTTE BASIN
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1					*62.2			
2					*62.6			
3					63.8			
4					64.5			
5					64.9			
6	NO	NO	NO	NO	65.3	NO	NO	NO
7					65.4			
8	FLOW	FLOW	FLOW	FLOW	65.8	FLOW	FLOW	FLOW
9					63.6			
10					*62.3			
11					NO			
12								
13					FLOW			
14								
15								
16								
17								
18								
19								
20								
21								
22	NO	NO	NO			NO	NO	NO
23								
24	FLOW	FLOW	FLOW			FLOW	FLOW	FLOW
25				*63.7				
26				64.9				
27				64.0				
28				63.5				
29				-				
30				-				
31				-		-		-

Date	May	June
17	NF	
18	NF	
19	NF	
20	*62.6	
21	62.8	
22	*62.3	NO
23		
24		FLOW
25		
26	NO	
27	FLOW	
28		
29		
30		
31		

* Estimated

CREST STAGES

Date	Time	Stage
2-26-57	12:00 Noon	65.0
3-7-57	2:00 PM	65.4

Date	Time	Stage

Date	Time	Stage

STATION DESCRIPTION

Colusa Weir from Sacramento River to Butte Basin

U. S. Department of the Army and Department of Water Resources cooperative station on left bank of Sacramento River at upstream end of Colusa Weir. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Crest of weir at elevation 61.8 feet. Flows over weir have been measured by current meter. Ratings vary with stages in Butte Basin. Stages from 1935 to date during periods of flow over weir published in reports of Department of Water Resources. Maximum recorded stage 70.6 feet, March 1, 1940. Formerly published as Sacramento River at Colusa Weir, station number 19 in Flood Flows and Stages series of reports.
Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 262

SACRAMENTO RIVER AT COLUSA
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	45.9	42.4	41.2	40.4	59.7	44.5	41.8	46.1	17	43.0	42.9	42.7	40.3	55.3	42.0	44.9	42.4
2	44.8	42.4	41.3	40.4	59.3	44.3	41.8	45.8	18	43.0	42.8	41.9	40.3	54.7	42.1	44.8	42.3
3	44.3	42.4	41.2	40.4	62.0	43.8	42.2	45.6	19	43.0	42.8	41.5	40.3	54.0	43.4	48.0	42.2
4	44.0	42.4	41.1	40.2	62.7	43.4	42.6	45.4	20	42.9	42.8	41.4	40.4	52.6	44.3	58.7	42.1
5	43.8	42.5	41.0	40.1	63.2	42.9	42.2	45.1	21	43.0	42.8	43.1	40.4	51.5	45.9	60.8	42.0
6	43.8	42.7	41.0	40.0	63.6	42.6	42.3	44.7	22	42.9	42.8	43.2	40.6	50.8	45.6	59.7	41.9
7	43.7	42.6	40.9	40.0	63.8	42.2	42.7	44.4	23	42.7	42.7	42.1	42.2	50.1	44.6	55.7	41.8
8	43.7	42.5	40.9	40.0	63.4	42.0	42.7	44.1	24	42.6	42.5	41.4	47.8	49.3	44.0	52.0	41.8
9	43.6	42.5	40.9	40.0	61.8	41.7	42.7	43.6	25	42.6	42.4	41.1	59.9	48.2	43.4	49.9	41.7
10	43.6	42.5	40.9	40.1	60.0	41.3	43.0	43.3	26	42.6	42.4	41.0	63.0	47.6	42.9	49.5	41.6
11	43.5	42.6	40.9	40.1	57.0	41.0	43.4	43.3	27	42.5	42.4	40.8	62.2	46.7	42.4	49.2	41.7
12	43.3	42.8	41.0	40.1	54.3	40.7	44.3	43.1	28	42.4	42.2	40.7	61.6	45.8	42.0	48.8	41.7
13	43.2	42.9	41.8	40.1	54.8	40.6	44.6	42.9	29	42.4	42.0	40.5	-	45.3	41.6	48.3	41.7
14	43.2	42.9	46.6	40.1	54.2	40.9	44.7	42.8	30	42.5	41.8	40.5	-	44.9	41.6	46.4	41.9
15	43.1	42.9	45.2	40.1	52.2	41.4	45.0	42.6	31	-	41.3	40.4	-	45.3	-	46.5	-
16	43.0	42.9	43.4	40.2	51.3	42.4	45.2	42.5									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	6:00 PM	47.5	3-17-57	3:00 PM	56.0			
1-21-57	6:00 PM	43.9	4-21-57	6:00 PM	46.3			
2-26-57	2:00 PM	63.3	5-21-57	3:00 AM	60.9			
3-7-57	3:00 PM	63.9						

STATION DESCRIPTION

Sacramento River at Colusa

U. S. Geological Survey and Department of Water Resources cooperative station on right bank of Sacramento River immediately downstream from Colusa Bridge. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Department of Water Resources maintains an automatic short wave radio water stage broadcaster at this station. (Prior to October 1945, U. S. Weather Bureau maintained a wire weight and staff gage on Colusa Bridge with zero set at elevation 40.45 feet, U.S.E.D. Datum. D.W.R.-U.S.G.S. gages reset on U.S.E.D. Datum during that month.) Records available on D.W.R.-U.S.G.S. gage from 1921 to date and published in reports of both agencies. Staff gage readings on one gage or the other published in river stage reports of U. S. Weather Bureau from 1893 to date. Maximum recorded stage and discharge, 69.8 feet and 54,000 second-feet, March 1, 1940. Formerly presented as station number 20 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 263

SACRAMENTO RIVER AT BUTTE SLOUGH OUTFALL GATES
Flood Period November 1956 through June 1957

Daily staff gage height in feet (a)

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	40.4	NR	NR	NR	NR	NR	37.8	NR	17						38.2	41.6	38.5
2		NR	37.2	NR	NR	NR	37.9	NR	18						38.1	41.4	38.4
3		38.4	NR	NR	NR	NR	38.1	42.4	19				NO		39.3	42.0	38.2
4			NR	36.2	59.5	NR	38.9	42.9	20				RECORD		40.6	NR	38.1
5			NR		60.0	39.3	38.7	41.0	21						42.1	58.0	38.0
6	NO		NR		60.5	NR	38.4	41.2	22	NO	NO	NO		NO	42.5	57.8	37.9
7	RECORD	NO	NR		60.7	38.4	39.0	41.0	23	RECORD	RECORD	RECORD		RECORD	41.3	54.9	37.7
8		RECORD	37.2	NO	60.5	38.0	39.0	40.6	24						40.5	NR	37.7
9				RECORD	NR	37.9	38.9	40.0	25						40.0	NR	37.7
10			NO		NR	37.3	39.2	39.6	26				60.0		39.2	NR	37.6
11			RECORD		55.1	36.9	39.7	39.6	27				59.4		38.6	NR	37.5
12					52.0	36.5	40.6	39.5	28				NR		38.0	46.0	37.7
13	39.3				52.0	36.2	41.1	39.1	29				-		37.6	45.8	37.7
14	NR	39.0			52.0	36.7	41.2	38.9	30				-		37.6	NR	37.6
15	NR	NR		36.2	NR	37.1	41.5	38.7	31			36.5	-		-	NR	-
16	NR	NR	40.0	NR	NR	38.7	41.9	38.6									

a Individual daily staff gage readings only.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

Sacramento River at Butte Slough Outfall Gates

Department of Water Resources station on left bank of Sacramento River at Butte Slough Outfall Gates 4.4 miles upstream from Meridian. Staff gage set on U.S.E.D. Datum, read daily by Butte Slough Irrigation Company, Ltd. Period of record 1936 to date. Stages published in reports of Department of Water Resources. Highest observed stage, 65.4 feet, February 29, 1940. Formerly presented as station number 21 in Flood Flows and Stages series of reports.

TABLE 264

SACRAMENTO RIVER AT MERIDIAN
Flood Period November 1956 through June 1957

Daily mean gage height in feet																	
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	40.0	36.3	35.2	34.4	55.0	39.6	35.8	41.0	17	37.0	36.8	37.3	34.2	50.4	36.4	39.3	36.4
2	39.4	36.3	35.1	34.4	54.2	39.2	35.8	40.6	18	36.9	36.8	36.4	34.2	50.6	36.5	39.2	36.3
3	38.6	36.4	35.1	34.4	56.4	38.7	36.2	40.4	19	36.9	36.8	35.8	34.2	49.9	37.7	41.5	36.1
4	38.2	36.3	35.1	34.2	57.2	38.2	36.7	40.0	20	36.8	36.8	35.6	34.3	48.5	38.7	52.3	36.0
5	38.0	36.4	35.0	34.0	57.6	37.7	36.5	39.7	21	36.9	36.8	36.9	34.3	47.2	40.3	55.6	35.9
6	37.9	36.6	34.9	33.9	58.0	37.3	36.4	39.3	22	36.8	36.8	37.7	34.4	46.3	40.4	54.9	35.8
7	37.8	36.6	34.9	33.9	58.2	36.9	36.8	38.8	23	36.6	36.7	36.6	35.8	45.5	39.3	51.8	35.7
8	37.8	36.5	35.0	33.9	58.0	36.5	36.8	38.4	24	36.5	36.5	35.8	40.3	44.7	38.5	48.3	35.6
9	37.7	36.4	35.0	33.9	56.7	36.2	36.8	37.9	25	36.5	36.4	35.4	52.7	43.5	37.9	45.7	35.6
10	37.7	36.4	35.1	34.0	55.2	35.7	37.1	37.5	26	36.5	36.3	35.2	57.2	42.8	37.2	44.9	35.5
11	37.6	36.6	35.1	34.0	52.8	35.3	37.6	37.5	27	36.4	36.3	35.0	56.9	41.9	36.6	44.4	35.5
12	37.4	36.8	35.2	34.0	50.5	34.9	38.5	37.3	28	36.3	36.3	34.8	56.4	40.9	36.1	43.9	35.6
13	37.2	36.9	35.7	34.0	50.6	34.7	38.9	37.0	29	36.3	36.0	34.6	-	40.3	35.7	43.4	35.5
14	37.2	36.9	40.0	34.0	50.4	35.1	39.0	36.8	30	36.4	35.9	34.5	-	39.8	35.6	41.6	35.6
15	37.1	36.9	40.4	34.0	48.3	35.6	39.3	36.6	31	-	35.4	34.4	-	40.1	-	41.5	-
16	37.0	36.9	38.1	34.1	47.0	36.8	39.6	36.5									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	11:00 PM	41.6	5-21-57	5:00 AM	55.7			
2-26-57	7:00 PM	57.5						
3-7-57	4:00 PM	58.3						
4-22-57	12:30 AM	40.9						

STATION DESCRIPTION

Sacramento River at Meridian

Department of Water Resources station on downstream end of middle fender of Sacramento Northern Railway Bridge across Sacramento River at Meridian. Continuous water stage recorder and staff gage installed in 1943 set on U.S.E.D. Datum. Period of record 1915 to date. Records published in reports of Department of Water Resources. Highest observed stage 64.4 feet, March 1, 1940. Formerly presented as station number 22 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 265

SACRAMENTO RIVER AT RECLAMATION DISTRICT #70 PUMPING PLANT
Flood Period November 1956 through June 1957

Daily staff gage height in feet (a)

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	35.1	31.5	30.1	29.0	50.3	35.0	29.0	36.6	17	32.1	32.0	33.0	28.8	45.4	30.8	34.5	30.5
2	35.4	31.5	30.1	29.0	49.3	34.4	29.4	36.1	18	32.2	31.9	31.8	28.8	47.3	30.4	34.4	30.4
3	34.4	31.5	30.0	29.0	50.8	33.5	29.5	35.8	19	32.1	31.9	30.9	28.8	46.8	31.5	35.0	30.1
4	33.7	31.5	29.9	29.0	51.3	33.5	30.5	35.4	20	32.1	31.9	30.5	28.8	45.4	33.0	44.8	30.0
5	33.6	31.5	29.9	28.8	51.7	32.7	30.5	35.0	21	32.1	31.9	31.1	28.8	43.9	34.5	50.4	29.7
6	33.4	31.5	29.8	28.6	51.9	32.0	30.0	34.6	22	32.1	31.9	33.0	28.8	42.8	36.0	50.3	29.5
7	33.0	31.8	29.8	28.7	52.1	31.5	30.5	33.8	23	31.9	31.9	32.3	29.9	41.9	34.8	49.0	29.5
8	33.0	31.7	29.6	28.7	52.1	31.0	30.5	33.2	24	31.8	31.7	31.0	32.8	41.0	33.2	46.3	29.5
9	33.0	31.5	29.8	28.7	51.4	30.0	30.7	33.7	25	31.7	31.4	30.5	45.2	39.8	32.7	43.0	29.5
10	33.0	31.5	29.8	28.9	50.6	30.0	31.1	32.0	26	31.7	31.3	30.0	51.3	38.8	31.8	41.2	29.4
11	33.0	31.5	29.8	28.8	49.4	29.5	31.7	31.9	27	31.7	31.3	29.9	51.4	37.8	29.9	40.7	29.3
12	32.8	31.8	29.8	28.8	48.4	29.2	32.6	31.8	28	31.6	31.4	29.7	51.0	36.8	30.0	40.0	29.5
13	32.5	32.0	30.1	28.8	47.2	28.8	33.2	31.4	29	31.5	31.3	29.5	-	35.8	29.5	39.7	29.4
14	32.4	32.0	33.0	28.8	47.4	28.0	33.4	31.8	30	31.5	30.8	29.3	-	35.1	29.3	39.2	29.4
15	32.5	32.0	36.9	28.8	45.5	29.9	33.6	30.9	31	-	30.5	29.2	-	35.2	-	37.0	-
16	32.4	32.0	34.0	28.8	43.8	30.8	34.6	30.6									

a Individual daily staff gage readings only.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

Sacramento River at Reclamation District #70 Pumping Plant

Department of Water Resources and Reclamation District No. 70 station on left bank of Sacramento River one and one-half miles downstream from Grimes. Staff gage set on U.S.E.D. Datum, read daily and at crest stages by pump attendant. Period of record 1925 to date. Records published in reports of Department of Water Resources. Highest observed stage, 58.5 feet, March 1, 1940. Formerly presented as station number 23 in Flood Flows and Stages series of reports.

TABLE 266

TISDALE WEIR FROM SACRAMENTO RIVER TO SUTTER BYPASS
Flood Period November 1956 through June 1957

Daily mean gage height in feet.

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1					47.7			
2					47.3			
3					48.0			
4					48.4			
5					48.6			
6	NO	NO	NO	NO	48.8	NO	NO	NO
7					48.9			
8	FLOW	FLOW	FLOW	FLOW	49.9	FLOW	FLOW	FLOW
9					48.6			
10					47.8			
11					*47.0			
12					*46.0			
13					*45.9			
14					*46.1			
15					NF			
16					NF			

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
17							NF	
18							NF	
19							NF	
20				NO			a 46.7	
21				FLOW			47.6	
22	NO	NO	NO		NO	NO	47.4	NO
23							46.4	
24	FLOW	FLOW	FLOW		FLOW	FLOW		FLOW
25								
26				48.4			NO	
27				48.4			FLOW	
28				48.2				
29				-				
30				-				
31	-			-		-	-	

* Estimated
a During flow period

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-27-57	3:00 AM	58.7						
3-7-57	12:00 Noon	49.3						
5-21-57	11:00 PM	47.6						

STATION DESCRIPTION

Tisdale Weir from Sacramento River to Sutter Bypass

U. S. Department of the Army and Department of Water Resources cooperative station on left bank of Sacramento River at north end of Tisdale Weir. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Crest of weir at elevation 45.45 feet. Flows over weir rated by measurements. Ratings vary with stages in Sutter Bypass. Period of record, 1935 to date. Stages during periods of flow over weir published in reports of Department of Water Resources. Maximum recorded stage, 53.3 feet, March 1, 1940. Formerly published as Sacramento River at Tisdale Weir, station number 24 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 267

SACRAMENTO RIVER AT TISDALE
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	33.5	29.8		*27.6	47.6	33.2	26.8	NR	17	30.7	30.5	31.4	27.3	44.2	29.2	32.7	28.5
2	33.6	29.8		27.5	47.3	32.8	27.0	NR	18	30.7	30.4	30.2	27.3	45.4	28.9	32.5	28.3
3	32.8	29.8		27.5	48.0	32.3	27.4	NR	19	30.6	30.4	29.4	27.4	44.7	30.0	34.3	28.1
4	32.2	29.8		27.4	48.4	31.6	28.3	*33.5	20	30.5	30.4	29.0	27.4	43.3	31.7	44.4	27.8
5	31.9	29.9	NO	27.3	48.6	31.0	28.3	33.2	21	30.5	30.4	29.8	27.5	41.9	33.3		27.7
6	31.8	30.1	RECORD	27.2	48.9	30.4	27.9	32.6	22	30.5	30.4	31.5	27.6	40.9	34.0		27.6
7	31.6	30.2		27.1	49.0	30.0	28.4	32.0	23	30.3	30.3	30.6	28.9	40.1	32.7		27.5
8	31.6	30.2		27.0	48.9	29.4	28.8	31.4	24	30.1	30.1	29.5	33.2	39.2	31.5	NO	27.4
9	31.5	30.0		27.0	48.4	29.0	29.0	30.8	25	30.1	29.9	28.9	44.7	37.9	30.6		27.3
10	31.5	30.0		27.0	47.7	28.4	29.3	30.3	26	30.0	29.8	NO	48.4	37.0	29.7	RECORD	27.2
11	31.5	30.0		27.0	46.9	27.9	30.0	30.1	27	30.0	29.8		48.5	36.0	28.6		27.0
12	31.2	30.3		27.0	45.7	27.3	31.1	29.9	28	29.9	29.8	RECORD	48.3	34.9	27.7		27.3
13	31.0	30.5	28.8	27.0	45.4	27.3	31.8	29.5	29	29.8	29.6		-	33.8	27.0		27.2
14	30.9	30.5	32.5	27.1	45.4	27.2	32.0	29.1	30	29.8	29.3		-	33.3	26.7		27.2
15	30.8	30.5	34.8	27.1	43.6	27.7	32.4	28.9	31	-			-	33.5	-		-
16	30.8	30.5	32.5	27.1	42.0	29.1	32.8	28.7									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-15-57	4:00 AM	35.4	3-14-57	12:30 AM	45.9			
1-22-57	10:00 AM	31.6	3-18-57	1:00 AM	45.7			
2-26-57	11:00 PM	48.6	4-22-57	3:00 AM	34.4			
3-7-57	9:00 PM	49.0						

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Sacramento River at Tisdale

Department of Water Resources station on left bank of Sacramento River, 1,000 feet downstream from Tisdale Weir at pumping plant of Sutter Mutual Water Company. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Period of record, 1925 to date. Records published in reports of Department of Water Resources. Maximum recorded stage, 53.5 feet, March 1, 1940. Department of Water Resources receives stage reports by telephone daily from observer at this station. Formerly presented as station number 25 in Flood Flows and Stages series of reports.

TABLE 268

SACRAMENTO RIVER BELOW WILKINS SLOUGH
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	33.1	29.4	28.1	27.2	47.2	32.9	26.5	34.4	17	30.2	30.0	30.9	26.8	43.8	28.8	32.3	28.2
2	33.1	29.4	28.0	27.1	46.8	32.4	26.7	33.9	18	30.2	30.0	29.8	26.8	44.9	28.5	32.1	27.9
3	32.3	29.4	28.0	27.1	47.5	31.8	27.0	33.6	19	30.1	29.9	29.0	26.8	44.2	29.6	34.1	27.7
4	31.7	29.4	28.0	27.0	47.8	31.2	27.9	33.2	20	30.0	29.9	28.6	26.9	43.0	31.3	44.0	27.5
5	31.4	29.4	27.8	26.7	48.1	30.6	28.0	32.8	21	30.0	29.9	29.4	27.0	41.5	32.8	47.0	27.4
6	31.2	29.6	27.7	26.6	48.3	30.0	27.6	32.2	22	30.0	29.9	31.0	27.1	40.5	33.6	47.0	27.2
7	31.1	29.7	27.7	26.5	48.5	29.5	28.1	31.6	23	29.8	29.9	30.1	28.2	39.7	32.3	45.9	27.2
8	31.1	29.6	27.8	26.6	48.4	29.0	28.4	31.0	24	29.6	29.6	29.1	32.3	38.8	31.1	43.4	27.0
9	31.0	29.5	27.8	26.6	47.9	28.6	28.6	30.4	25	29.6	29.4	28.4	43.9	37.6	30.2	40.5	27.0
10	31.0	29.5	27.9	26.7	47.2	28.0	29.0	29.9	26	29.6	29.4	28.1	47.8	36.7	29.3	39.2	26.8
11	31.0	29.6	27.9	26.7	46.5	27.4	29.6	29.7	27	29.5	29.4	27.9	48.0	35.7	28.3	38.4	26.6
12	30.7	29.8	28.0	26.7	45.3	26.9	30.6	29.5	28	29.4	29.3	27.7	47.7	34.6	27.4	37.7	26.9
13	30.5	30.0	28.4	26.7	45.0	26.4	31.4	29.1	29	29.4	29.1	27.5	-	33.6	26.7	37.2	26.8
14	30.4	30.0	32.0	26.7	45.0	26.8	31.6	28.8	30	29.4	28.9	27.3	-	33.1	26.4	35.4	26.8
15	30.3	30.0	34.3	26.7	43.2	27.2	31.9	28.5	31	-	28.5	27.2	-	33.2	-	34.9	-
16	30.3	30.0	32.0	26.6	41.6	28.7	32.4	28.3									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-15-57	5:00 AM	34.9	4-22-57	3:00 AM	33.9			
2-27-57	1:00 AM	48.1	5-22-57	1:00 AM	47.1			
3-7-57	10:00 PM	48.6						
3-18-57	1:00 AM	45.3						

STATION DESCRIPTION

Sacramento River below Wilkins Slough

U. S. Geological Survey and Department of Water Resources cooperative station on right bank of Sacramento River, 2,000 feet downstream from R.D. No. 108 irrigation pumping plant. Continuous water stage recorder and staff gage set on U.S.E.O. Datum. Records available from 1931 to date and published in D.W.R. and U.S.G.S. reports. Maximum recorded stage and discharges, 52.8 feet and 28,000 second-feet, March 1, 1940. Formerly presented as station number 26 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 269

SACRAMENTO RIVER NEAR ROUGH AND READY BEND
Flood Period November 1956 through June 1957

Daily staff gage height in feet (a)

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	26.2	22.9	21.7		41.4	26.9	*20.4	28.9	17	23.7	23.4	24.8	NR	37.2	23.2	26.3	22.0
2	26.6	22.9	21.6		40.9	26.5	20.8	28.4	18	23.6	23.4	23.7	NR	38.2	22.9	26.2	21.7
3	25.9	22.9	21.6		41.2	26.0	21.2	28.0	19	23.6	23.4	22.8	NR	37.6	23.9	28.8	21.5
4	25.2	22.9	21.5		41.4	25.4	22.3	27.6	20	23.6	23.4	22.4	NR	36.5	25.5	37.0	21.2
5	24.9	22.9	21.4		41.7	24.7	22.4	27.0	21	23.6	23.4	22.7	20.7	35.0	26.6	40.6	21.1
6	24.7	23.0	21.4	NO	42.1	24.2	22.1	26.4	22	23.6	23.4	24.4	20.8	34.0	27.4	40.9	21.0
7	24.5	23.2	21.3		42.3	23.9	22.4	25.9	23	23.4	23.3	24.0	21.9	33.2	26.6	40.3	20.8
8	24.4	23.2	21.3	RECORD	42.3	23.4	22.8	25.3	24	23.2	23.2	23.0	25.8	32.3	25.6	38.4	20.7
9	24.4	23.1	21.4		42.0	23.0	23.1	24.6	25	23.1	22.9	22.3	35.9	31.2	24.5	35.8	20.6
10	24.4	23.1	21.5		41.4	22.4	23.5	24.1	26	23.1	22.8	21.9	41.2	30.2	23.6	34.1	20.4
11	24.4	23.0	21.5		40.8	21.7	24.1	23.7	27	23.0	22.8	21.6	42.0	29.4	22.5	32.9	20.3
12	24.2	23.2	21.6		39.8	21.3	24.8	23.6	28	23.0	22.8	21.4	41.9	28.5	*21.5	32.0	20.3
13	24.0	23.4	22.0		39.3	21.1	25.5	23.2	29	22.9	22.6	21.3	-	27.5	*20.6	31.5	20.4
14	23.8	23.5	24.2		39.2	21.1	25.8	22.8	30	22.9	22.4	21.1	-	27.0	*20.2	30.1	20.4
15	23.8	23.5	27.6		37.7	21.2	26.0	22.5	31	-	22.1	21.0	-	27.0	-	29.4	-
16	23.7	23.5	26.1		36.2	23.0	26.4	22.2									

* Estimated
a Individual daily staff gage readings only.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
11-2-56	12:30 AM	26.9	3-8-57	3:00 AM	42.4	5-22-57	5:00 AM	41.0
1-15-57	12:00 Noon	27.8	3-18-57	3:00 AM	38.5			
1-22-57	7:00 PM	24.6	4-17-57	4:00 AM	23.5			
2-27-57	7:00 AM	42.1	4-22-57	8:00 AM	27.6			

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Sacramento River near Rough and Ready Bend

Reclamation District No. 108 station on right bank of Sacramento River at R.D. No. 108 drainage pumping plant. Staff gage set on U.S.E.D. Datum. Intermittent records prior to 1937 to date published in full reports of Department of Water Resources. Maximum observed stage, 45.6 feet, March 1, 1940. Formerly presented as station number 27 in Flood Flows and Stages series of reports.

TABLE 270

SACRAMENTO RIVER AT KNIGHTS LANDING
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	22.0	18.6	17.6	16.9	*37.4	23.2	17.4	25.4	17	19.5	19.0	20.8	16.9	32.7	20.3	22.3	18.2
2	22.3	18.6	17.5	16.9	36.8	22.8	17.9	25.0	18	19.4	19.0	19.8	17.0	33.2	20.1	22.2	17.8
3	21.6	18.6	17.5	16.9	36.6	22.3	18.8	24.6	19	19.3	18.9	18.9	17.0	32.5	21.3	26.3	17.6
4	20.9	18.6	17.4	16.8	36.7	21.8	19.6	24.0	20	19.3	18.9	18.5	*17.2	31.5	22.3	33.1	17.3
5	20.5	18.6	17.4	16.6	37.0	21.2	19.7	23.2	21	19.2	19.0	19.0	*17.4	30.2	22.8	36.1	17.2
6	20.3	18.8	17.2	16.4	37.7	20.8	19.4	22.7	22	19.3	18.9	20.1	*17.7	29.2	23.4	36.4	17.0
7	20.1	18.9	17.1	16.3	37.9	20.5	19.7	22.3	23	19.2	18.8	19.9	*19.3	28.5	23.0	36.1	16.9
8	20.1	19.0	17.2	16.4	37.8	20.1	19.9	21.6	24	19.0	18.8	19.0	*23.9	27.6	22.2	34.8	16.8
9	20.1	18.8	17.4	16.5	37.6	19.7	20.2	20.9	25	18.9	18.6	18.3	*32.1	26.6	21.1	32.6	16.6
10	20.1	18.8	17.6	16.7	37.2	19.2	20.8	20.4	26	18.8	18.5	18.0	*37.2	25.7	20.2	30.7	16.4
11	20.1	18.7	17.6	16.6	36.7	18.6	21.2	20.0	27	18.7	18.4	17.7	*37.9	25.0	19.2	29.3	16.3
12	20.0	18.8	17.6	16.5	36.0	18.0	21.5	20.0	28	18.6	18.4	17.5	*37.8	24.3	18.2	28.2	16.2
13	19.8	19.0	18.0	16.6	35.5	17.6	21.9	19.6	29	18.6	18.3	17.3	-	23.5	17.5	27.7	16.2
14	19.7	19.1	20.0	16.6	35.1	17.6	21.1	19.2	30	18.6	18.1	17.1	-	23.0	17.1	26.7	16.2
15	19.6	19.2	22.9	16.7	33.8	19.1	22.2	18.8	31	-	17.9	17.0	-	23.1	-	26.0	-
16	19.5	19.1	22.1	16.7	32.5	20.5	22.4	18.4									

*Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
11-2-56	3:00 AM	23.4	4-22-57	11:00 AM	23.5			
1-15-57	3:00 PM	23.1	5-22-57	5:00 AM	36.5			
2-27-57	6:00 PM	38.0						
3-18-57	4:00 AM	33.3						

STATION DESCRIPTION

Sacramento River at Knights Landing

U. S. Geological Survey and Department of Water Resources cooperative station on left bank of Sacramento River immediately upstream from Southern Pacific Railroad Bridge. Continuous water stage recorder and staff gage set on U.S.E.D. Datum which is minus 3.05 U.S.G.S. Datum. (U. S. Weather Bureau maintained a staff gage on Southern Pacific Railroad Bridge with zero set at elevation 19.7 feet, U.S.E.D. Datum, from 1904 to 1932, and at 7.65 feet, U.S.E.D. Datum, from 1932 to October 1945.) Records available on D.W.R.-U.S.G.S. gage from 1921 to date and published in reports of both agencies. Station rated in conjunction with gage heights at Fremont Weir at West End to adjust for backwater effects from Feather River and Sutter Bypass. Staff gage readings on U. S. Weather Bureau gage have been published in river stage reports of that agency from 1904 to 1957. Maximum recorded stage, 41.8 feet, U.S.E.D. Datum corresponding to a discharge of 27,000 second-feet, February 8, 1942. Maximum recorded discharge 27,800 second-feet, December 24, 1955, corresponding to a stage of 39.6 feet. Formerly presented as station number 28 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 271

BUTTE CREEK NEAR CHICO
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.4	2.2	2.2	2.2	3.4	2.8	2.8	2.8	17	2.2	2.2	2.4	2.4	3.2	3.0	2.7	2.5
2	2.4	2.2	2.2	2.3	3.3	2.7	3.0	2.8	18	2.2	2.2	2.3	2.4	3.1	3.1	4.9	2.5
3	2.3	2.2	2.2	2.2	3.2	2.7	2.9	2.7	19	2.2	2.2	2.3	2.4	3.0	3.0	4.8	2.5
4	2.3	2.2	2.2	2.2	3.4	2.7	2.8	2.7	20	2.2	2.2	2.6	2.4	3.0	3.0	4.1	2.5
5	2.3	2.3	2.2	2.2	3.9	2.7	2.8	2.7	21	2.2	2.2	2.4	2.6	3.0	2.9	3.7	2.4
6	2.3	2.3	2.2	2.3	3.8	2.7	2.8	2.7	22	2.2	2.2	2.4	2.8	2.9	2.9	3.5	2.4
7	2.3	2.2	2.2	2.2	3.5	2.7	2.8	2.6	23	2.2	2.2	2.3	4.1	2.8	2.9	3.3	2.4
8	2.3	2.2	2.2	2.3	3.4	2.7	2.8	2.6	24	2.2	2.2	2.3	6.6	2.8	2.8	3.2	2.4
9	2.3	2.2	2.2	2.3	3.5	2.7	2.8	2.6	25	2.2	2.2	2.3	5.3	2.8	2.8	3.1	2.4
10	2.3	2.2	2.2	2.3	3.3	2.7	2.8	2.6	26	2.2	2.2	2.3	4.8	2.8	2.8	3.1	2.4
11	2.3	2.3	2.2	2.3	3.2	2.5	2.8	2.6	27	2.2	2.2	2.2	4.3	2.8	2.8	3.0	2.4
12	2.2	2.3	2.6	2.3	3.4	2.6	2.7	2.6	28	2.2	2.2	2.3	3.7	2.7	2.8	3.0	2.4
13	2.2	2.3	3.1	2.3	3.2	2.6	2.7	2.6	29	2.2	2.2	2.2	-	2.8	2.8	2.9	2.4
14	2.3	2.3	2.6	2.4	3.1	3.2	2.8	2.6	30	2.2	2.2	2.3	-	2.8	2.8	2.9	2.3
15	2.3	2.3	2.5	2.4	3.2	3.0	2.8	2.5	31	-	2.2	2.2	-	2.8	-	2.9	-
16	2.2	2.3	2.4	2.4	3.3	2.8	2.7	2.5									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	6:00 AM	3.4						
2-24-57	12:00 Noon	7.7						
4-14-57	8:00 AM	3.7						
5-18-57	4:30 PM	6.4						

STATION DESCRIPTION

Butte Creek near Chico

U. S. Geological Survey and Department of Water Resources cooperative station on right bank of Butte Creek 0.8 mile downstream from Little Butte Creek and 7.5 miles east of Chico. Continuous water stage recorder and staff gage at an altitude of about 350 feet. Prior to 1944 station was located one-quarter mile upstream from present site at different datum. Rating curve extended for flows in excess of 6,000 second-feet by logarithmic plotting. Period of record, 1930 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge, 13.35 feet and 18,700 second-feet, December 22, 1955, at present site; 18.9 feet and 17,000 second-feet, December 11, 1937, at original site. Formerly presented as station number 29 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 272

BUTTE SLOUGH TO SACRAMENTO RIVER
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	42.1	38.7	37.6	36.9		42.0	41.2	44.2	17	39.4	39.2	40.3	36.7	48.4	41.1	42.1	41.7
2	41.6	38.7	37.5	36.8		41.7	41.2	43.7	18	39.3	39.2	39.3	36.7	48.1	41.0	42.0	41.6
3	41.0	38.7	37.5	36.9		41.2	41.4	43.2	19	39.2	39.2	38.6	36.7	47.9	41.8	44.0	41.8
4	40.7	38.7	37.4	36.6		40.7	41.5	42.8	20	39.2	39.2	38.4	37.4	47.7	42.4	NR	41.9
5	40.5	38.8	37.4	36.4		40.1	41.4	42.5	21	39.2	39.2	39.9	39.6	47.5	43.1	NR	41.8
6	40.3	39.0	37.3	36.3	NO	39.6	41.8	42.0	22	39.2	39.2	40.6	40.2	47.2	43.2	NR	41.8
7	40.2	39.0	37.5	36.3	RECORD	39.8	41.8	41.7	23	39.0	39.1	39.4	39.9	47.0	42.6	47.6	41.8
8	40.1	38.8	37.7	36.4		40.8	41.9	42.1	24	38.8	38.9	38.6	43.0	46.5	41.6	47.6	41.7
9	40.0	38.8	37.8	36.4		41.4	42.1	41.8	25	38.9	38.8	38.2	46.6	45.6	41.0	47.3	41.9
10	40.0	38.8	37.8	36.5		41.3	42.3	41.4	26	38.8	38.7	38.0	49.4	44.9	41.7	47.0	42.0
11	40.0	39.0	37.9	36.6		40.9	42.3	41.2	27	38.8	38.7	37.9	NR	44.2	40.9	46.8	41.9
12	39.8	39.2	38.0	36.9		40.7	42.5	41.2	28	38.7	38.7	37.6	NR	43.3	41.3	46.4	41.9
13	39.6	39.3	38.7	36.9		41.4	42.7	41.6	29	38.7	38.4	37.2	-	42.7	41.3	46.1	41.8
14	39.6	39.3	42.8	36.7		41.6	42.7	41.8	30	38.7	38.2	37.1	-	42.2	41.2	44.9	41.8
15	39.5	39.3	42.9	36.6	49.2	41.6	42.8	41.8	31	-	37.8	37.0	-	42.5	-	44.7	-
16	39.5	39.3	41.1	36.7	48.6	42.0	42.3	41.9									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	10:00 PM	44.2						
1-21-57	11:00 PM	41.0						

STATION DESCRIPTION

Butte Slough to Sacramento River

Department of Water Resources station on Butte Slough at outfall gates to Sacramento River 4.4 miles northerly from Meridian. Continuous water stage recorder set on U.S.E.D. Datum. Period of record 1924 to date. Stages published in reports of Department of Water Resources. Highest observed stage, 68.9 feet, February 29, 1940. Formerly published as Butte Slough at Outfall Gates, station number 30 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 273

BUTTE SLOUGH TO SUTTER BYPASS
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	41.8	39.4	39.3	39.4	53.6	42.2	41.3	44.1	17	39.7	39.9	41.3	39.3	47.6	41.4	42.3	41.8
2	41.8	39.4	39.3	39.3	52.6	41.9	41.4	43.7	18	39.6	39.9	40.8	39.3	47.3	41.2	42.2	41.7
3	*41.3	39.4	39.3	39.2	52.2	41.6	41.5	43.3	19	39.5	39.9	40.4	39.2	47.0	41.8	43.4	41.9
4	*41.1	39.5	39.4	39.2	53.5	41.2	41.7	42.9	20	39.6	39.9	40.2	39.3	46.8	42.3	45.4	42.0
5	*41.0	39.7	39.4	39.0	54.5	40.8	41.5	42.6	21	39.6	39.8	40.5	39.9	46.6	42.9	46.2	42.0
6	*40.9	39.8	39.4	39.0	55.4	40.5	41.9	42.2	22	39.6	39.9	41.2	40.6	46.3	43.1	46.7	41.9
7	*40.8	39.8	39.6	39.1	56.2	40.4	41.9	41.9	23	39.5	39.9	40.8	40.9	46.1	42.6	46.6	41.9
8	*40.6	39.7	40.0	39.2	56.5	41.0	42.0	42.2	24	39.3	39.8	40.4	42.5	45.8	41.8	46.5	41.9
9	*40.5	39.7	40.2	39.2	55.9	41.5	42.1	42.0	25	39.4	39.7	40.2	45.7	45.1	41.2	46.4	42.0
10	*40.4	39.7	40.3	39.2	54.2	41.5	42.2	41.6	26	39.4	39.7	40.2	50.0	44.6	41.0	46.2	42.1
11	*40.3	39.8	40.3	39.2	53.2	41.0	42.4	41.5	27	39.4	39.7	40.2	53.8	44.1	41.1	46.0	42.0
12	*40.1	39.8	40.4	39.6	52.0	40.9	42.5	41.5	28	39.4	39.7	40.0	54.1	43.3	41.4	45.8	42.0
13	*40.0	39.9	40.6	39.8	51.0	41.2	42.6	41.8	29	39.4	39.6	39.7	-	42.8	41.4	45.5	42.0
14	39.9	39.9	42.3	39.6	49.9	41.6	42.6	41.9	30	39.4	39.5	39.6	-	42.4	41.3	44.7	42.0
15	40.0	40.0	43.1	39.4	48.8	41.5	42.8	41.9	31	-	39.4	39.4	-	42.5	-	44.5	-
16	39.9	39.9	41.9	39.4	47.9	42.1	42.4	41.9									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-15-57	1:00 AM	43.7	4-16-57	6:30 AM	42.4			
1-22-57	12:00 Noon	41.3	5-22-57	1:00 PM	46.7			
2-28-57	1:00 PM	54.2						
3-8-57	9:00 AM	56.6						

STATION OESCRIPTION

Butte Slough to Sutter Bypass

Department of Water Resources atation near middle of steel span section of Mawson Bridge on West Butte-Meridian Road. Continuous water stage recorder and ataff gage aet on U.S.E.D. Datum. Period of record, 1934 to date. Stages published in reports of Depsrtment of Water Resources. Highest recorded stage, 68.9 feet, March 1, 1940 (immediately prior to R. D. No. 70 levee break at a point 2.3 miles downstream). Formerly published as Butte Slough at Mawson Bridge, ststion number 31 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 274

SUTTER BYPASS AT LONG BRIDGE
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1					45.8	39.7	40.7	41.0	17				NF	42.4	39.9	41.1	41.1
2					45.2	39.6	40.8	41.0	18				NF	42.1	39.9	41.0	41.1
3					44.9	39.6	40.8	40.9	19				NF	41.6	40.0	40.9	41.2
4					45.5	39.5	40.8	41.0	20				37.6	41.3	39.8	40.2	41.2
5					46.1	39.6	40.7	41.1	21				38.9	41.2	40.0	40.4	41.2
6	NO	NO	NO	NO	46.7	39.5	40.8	41.0	22	NO	NO	NO	39.5	41.0	40.0	41.1	41.2
7					47.2	39.5	40.9	41.0	23				39.6	40.8	40.0	41.1	41.2
8	FLOW	FLOW	FLOW	FLOW	47.4	39.6	41.1	41.2	24	FLOW	FLOW	FLOW	*38.6	40.6	40.0	41.0	41.2
9					47.1	39.7	41.1	41.1	25				39.1	40.1	40.1	41.3	41.3
10					46.4	39.8	41.1	41.0	26				41.7	39.9	40.2	41.6	41.3
11					45.6	39.8	41.1	41.0	27				45.6	39.9	40.3	41.6	41.3
12					45.0	39.8	41.1	41.0	28				46.0	39.9	40.5	41.5	41.3
13					44.4	39.9	41.1	41.2	29				-	39.8	40.5	41.4	41.3
14					43.9	39.7	41.2	41.2	30				-	39.7	40.6	41.1	41.4
15					43.3	39.9	41.3	41.2	31	-			-	39.8	-	41.1	-
16					42.8	40.1	41.2	41.2									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
3-8-57	1:00 PM	47.5						

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
3-8-57	47.44	25200	DWR				

STATION DESCRIPTION

Sutter Bypass at Long Bridge

Department of Water Resources station on the west levee of Sutter Bypass at end of "Old Long Bridge" on the Sutter City-Meridian Road. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Records available from 1914 to date and published in reports of Department of Water Resources. Maximum recorded stage and discharge, 57.7 feet and 210,000 second-feet, March 1, 1940 (immediately subsequent to R. D. No. 70 levee break at a point 4.2 miles upstream). Formerly presented as station number 32 in Flood Flows and Stages series of reports.

TABLE 275

SUTTER BYPASS AT STATE PUMPINO PLANT #3
·Flood Period November 1956 through June 1957

Daily staff gage height in feet (a)																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Peb.	Mar.	Apr.	May	June
1	38.9	38.7	38.9	31.1	42.6	33.3	38.1	38.4	17	38.6	39.0	35.5	31.1	37.0	38.4	38.2	38.4
2	38.9	38.7	38.8	31.1	42.0	33.3	38.2	38.3	18	38.6	38.9	34.5	31.1	36.2	38.4	38.5	38.3
3	38.6	38.7	38.6	31.1	41.6	33.7	38.4	38.2	19	38.7	38.9	34.5	31.1	36.0	38.4	35.6	38.4
4	38.6	38.7	38.6	31.1	42.2	35.6	38.6	38.4	20	38.6	38.9	34.5	31.1	35.6	38.4	36.0	38.4
5	38.5	38.8	38.6	31.1	42.8	36.8	38.3	38.4	21	38.6	NR	34.3	32.8	35.4	38.6	37.2	38.6
6	38.6	38.8	38.6	31.1	43.3	36.8	38.4	38.2	22	38.7	38.9	34.2	33.9	35.0	38.5	37.6	38.4
7	38.6	38.8	38.6	31.1	44.0	36.8	38.6	38.4	23	38.7	38.9	33.9	35.2	34.7	38.5	37.6	38.4
8	38.6	38.8	38.8	31.1	44.3	37.0	38.4	38.4	24	38.7	38.9	33.8	35.2	34.4	38.2	37.4	38.4
9	38.6	38.8	38.9	31.1	44.0	37.9	38.4	38.4	25	38.7	38.9	33.6	34.2	34.0	38.2	37.6	38.4
10	38.6	38.8	38.9	31.1	43.2	38.D	38.5	38.4	26	38.7	38.9	33.4	37.2	33.7	38.2	38.0	38.4
11	38.6	38.8	38.8	31.1	42.4	38.1	38.5	38.4	27	38.7	38.9	33.2	41.0	33.5	38.2	38.0	38.4
12	38.6	38.8	38.2	31.1	42.0	38.2	38.5	38.4	28	38.7	38.9	33.2	42.6	33.D	38.1	38.1	38.6
13	38.6	38.8	31.1	31.1	41.2	38.3	38.6	38.4	29	38.7	38.9	33.0	-	33.0	38.1	38.0	38.8
14	38.6	38.8	36.8	31.1	40.4	38.4	38.6	38.4	30	38.7	38.9	32.8	-	33.0	38.1	38.2	38.6
15	38.6	38.9	35.5	31.1	39.4	38.4	38.5	38.6	31	-	38.9	32.6	-	*33.0	-	38.2	-
16	38.6	NR	35.5	31.1	37.7	38.4	38.2	38.5									

* Estimated

a Average gage height of two daily readings, 7 AM and 6 PM.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

Sutter Bypass at State Pumping Plant No. 3

Department of Water Resources atation on the east levee of Sutter Bypass one-half mile upstream from Wadsworth Canal. Staff gage set on U.S.E.D. Datum, read twice daily and at crest stages by pump operators. Period of record 1920 to date. Stages publlshed in reporta of Department of Water Resources. Highest observed stage 54.5 feet, March 1, 1940 (immediately aubsequent to R. D. No. 70 levee break at a point 7.5 miles upstream). Formerly presented as station number 33 in Flood Flows and Stagea series of reporta.

TABLE 276

WADSWORTH CANAL TO SUTTER BYPASS
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	50.0	49.4	49.3	42.7	47.2	47.1	51.1	*52.1	17	49.4	49.3	43.5	42.6	47.0	51.5	52.2	*51.8
2	49.9	49.4	49.3	42.7	47.1	47.1	51.5	*52.0	18	49.4	49.3	43.5	42.6	47.0	51.5	52.5	*51.7
3	49.7	49.4	49.3	42.6	47.1	47.9	51.6	*51.9	19	49.4	49.3	43.5	43.7	47.0	51.5	52.8	*51.6
4	49.6	49.5	49.3	42.6	47.2	49.9	51.6	*51.9	20	49.4	49.3	43.6	46.3	46.9	51.6	52.7	51.5
5	49.6	49.4	49.3	42.6	47.2	50.2	51.3	51.9	21	49.5	49.3	43.6	46.5	46.9	51.3	52.8	51.5
6	49.6	49.4	49.3	42.6	47.1	50.3	51.6	51.7	22	49.5	49.3	43.5	46.5	46.9	51.2	52.8	51.6
7	49.6	49.4	49.3	42.6	47.0	50.1	51.9	51.8	23	49.4	49.3	43.5	46.9	46.9	51.0	52.7	51.6
8	49.6	49.4	49.4	42.6	47.0	50.3	52.0	51.7	24	49.4	49.3	43.5	48.1	46.9	51.0	52.5	51.6
9	49.6	49.4	49.4	42.6	47.0	50.2	52.0	51.9	25	49.5	49.3	43.5	48.4	46.8	51.0	52.3	51.5
10	49.6	49.4	49.3	42.6	47.1	50.1	51.8	51.9	26	49.5	49.3	43.5	48.1	46.7	51.1	52.3	51.4
11	49.5	49.4	a47.7	42.6	47.1	50.1	51.8	52.0	27	49.5	49.3	43.5	47.8	46.9	50.6	52.2	51.5
12	49.6	49.4	47.1	42.6	47.1	50.3	51.9	*52.0	28	49.5	49.3	43.5	47.3	46.9	49.4	52.2	51.7
13	49.6	49.3	47.1	42.6	47.0	50.3	52.0	*51.9	29	49.5	49.3	43.5	-	47.0	49.0	52.2	51.7
14	49.5	49.3	a45.9	42.5	47.0	50.3	52.0	*52.0	30	49.5	49.4	43.5	-	47.0	49.4	52.2	51.7
15	49.5	49.3	43.5	42.5	47.0	50.3	52.2	*51.9	31	-	49.3	a43.0	-	47.1	-	52.1	-
16	49.4	49.3	43.5	42.6	47.0	50.2	52.2	*51.9									

a Board change
* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-24-57	12:00 PM	49.2						
5-21-57	11:00 AM	52.9						

STATION DESCRIPTION

Wadsworth Canal to Sutter Bypass

Department of Water Resources station near middle of the downstream side of Butte House Road bridge across Wadsworth Canal. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Period of record 1929 to date. Station rated by means of measurements for low and medium flows. Flood flows affected by backwater from Sutter Bypass. Stages published in reports of Department of Water Resources. Highest recorded flood stage, 54.75 feet, February 8, 1942. Formerly published as Wadsworth Canal at Butte House Road, station number 34 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 277

SUTTER BYPASS AT STATE PUMPING PLANT #2
Flood Period November 1956 through June 1957

Daily staff gage height in feet (a)

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	26.8	26.8	26.9	25.8	38.4	27.4	27.7	29.6	17	26.4	26.8	26.8	27.6	32.7	29.5	28.6	28.9
2	26.9	26.8	26.7	25.7	37.3	27.3	27.3	29.6	18	26.4	26.8	26.6	28.0	32.4	29.6	29.0	28.9
3	26.9	27.0	25.6	25.6	37.0	26.8	27.5	28.9	19	26.3	26.8	26.5	28.0	32.3	29.4	29.9	28.7
4	26.8	27.2	25.1	25.5	37.4	26.3	28.2	28.6	20	26.1	26.8	26.5	27.8	32.1	29.4	32.4	28.6
5	26.6	27.2	25.0	25.4	38.2	27.2	28.5	29.1	21	25.9	26.8	26.4	27.6	31.9	29.8	33.6	28.8
6	26.6	27.2	25.0	25.2	39.0	28.0	28.6	28.9	22	26.0	26.8	26.6	27.4	31.7	29.8	34.6	29.0
7	26.5	27.3	24.9	25.2	40.0	28.5	29.0	28.7	23	25.8	26.8	26.6	27.4	31.4	29.6	34.7	29.0
8	26.4	27.4	24.9	25.3	40.3	28.6	29.0	28.4	24	25.7	26.8	26.5	27.6	31.0	39.1	33.9	28.8
9	26.4	27.4	25.0	25.3	40.0	28.6	29.2	28.2	25	25.8	26.8	26.4	31.0	30.4	28.4	33.0	28.8
10	26.5	27.5	25.0	25.4	39.0	28.8	29.2	28.4	26	26.0	26.8	26.4	36.6	29.4	28.0	32.4	28.6
11	26.5	27.6	25.2	25.4	37.7	28.9	29.0	28.6	27	26.2	26.8	26.3	38.2	28.4	28.0	32.2	28.6
12	26.5	27.4	26.6	25.4	36.2	28.9	28.8	28.7	28	26.4	26.8	26.4	38.9	27.8	28.0	31.9	28.8
13	26.5	27.3	26.4	25.7	35.0	29.0	28.8	28.7	29	26.4	26.8	26.2	-	27.9	27.9	31.7	29.2
14	26.4	27.0	26.7	26.2	34.5	29.3	28.8	28.8	30	26.6	26.8	26.1	-	27.6	27.6	31.3	29.2
15	26.3	26.8	27.5	26.6	34.0	29.6	28.9	28.8	31	-	26.8	26.0	-	27.4	-	30.9	-
16	26.4	26.8	27.0	27.0	33.3	29.4	28.8	28.8									

a Average gage height of two daily readings, 7 AM and 7 PM.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

Sutter Bypass at State Pumping Plant #2

Department of Water Resources station on the east levee of Sutter Bypass at O'Bannion Road. Staff gage eet on U.S.E.D. Datum, read twice daily and at crest stages by pump operators. Period of record, 1920 to date. Stagea published in reporte of Department of Water Resourcee. Higheat observed stage 52.1 feet, March 1, 1940. Pormerly preeented as station number 35 in Flood Plows and Stagee series of reports.

TABLE 278

TISDALE BYPASS AT RECLAMATION DISTRICT # 1660 PUMPING PLANT
Flood Period November 1956 through June 1957

Daily staff gage height in feet (a)																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	22.3	22.3	22.3	22.1	39.6	24.2	22.8	27.2	17	22.3	22.3	24.0	22.1	33.0	22.8	23.6	22.6
2	22.6	22.3	22.3	22.1	38.2	24.0	23.0	26.6	18	22.3	22.3	23.2	21.7	32.8	22.7	23.4	22.6
3	22.7	22.3	22.3	22.1	39.1	23.6	23.3	26.2	19	22.3	22.3	22.8	21.7	32.2	22.6	26.1	22.8
4	22.8	22.3	22.3	22.1	39.6	23.0	23.2	25.6	20	22.3	22.3	22.4	21.7	31.8	23.0	30.7	22.9
5	22.8	22.4	22.3	22.1	40.2	22.4	23.2	24.3	21	22.3	22.3	22.3	21.7	31.4	23.2	37.7	22.9
6	22.6	22.3	22.3	22.1	40.9	22.8	23.1	24.0	22	22.3	22.3	22.2	21.7	30.8	23.6	37.8	22.8
7	22.5	22.3	22.3	22.1	41.5	22.8	23.0	23.6	23	22.3	22.3	22.2	21.8	30.4	24.0	35.6	22.8
8	22.4	22.3	22.3	22.1	41.8	22.6	23.2	23.5	24	22.3	22.3	22.2	22.0	30.0	23.9	34.0	22.7
9	22.4	22.3	22.3	22.1	41.4	22.6	23.4	23.5	25	22.3	22.3	22.2	29.6	29.6	23.6	33.2	22.9
10	22.4	22.3	22.3	22.1	40.2	22.8	23.7	23.6	26	22.3	22.3	22.2	39.0	28.9	23.0	32.6	23.0
11	22.4	22.3	22.3	22.1	38.4	22.9	23.7	23.5	27	22.3	22.3	22.2	40.0	28.0	22.7	31.9	23.0
12	22.4	22.3	22.3	22.1	36.4	22.6	23.6	23.2	28	22.3	22.3	22.2	40.4	27.0	22.7	31.0	23.1
13	22.3	22.3	22.3	22.1	35.2	22.7	23.3	23.1	29	22.3	22.3	22.2	-	26.0	22.6	30.1	23.0
14	22.4	22.3	23.0	22.1	34.7	22.8	23.4	23.2	30	22.3	22.3	22.1	-	25.0	22.6	29.4	23.0
15	22.3	22.3	24.6	22.1	34.1	22.8	23.6	23.1	31	-	22.3	22.1	-	24.4	-	33.4	-
16	22.3	22.3	24.6	22.1	33.5	22.5	23.6	23.0									

a Average gage height of two daily readings, 7 AM and 5 PM.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
3-5-57	40.20	82.0	DWR	6-27-57	23.04	31.4	DWR
3-5-57	40.20	89.8	DWR				
3-5-57	40.20	90.8	DWR				
6-13-57	23.12	31.6	DWR				

STATION DESCRIPTION

Tisdale Bypass at Reclamation District No. 1660 Pumping Plant

Reclamation District No. 1660 station on north levee of Tisdale Bypass two miles east of Tisdale Weir at District drainage pumping plant. Staff gage set on U.S.E.D. Datum, read twice daily and at crest stages by pump attendant. Period of record, 1925 to date. Stages published in reports of Department of Water Resources. Highest observed stage, 52.6 feet, March 1, 1940. Formerly presented as station number 36 in Flood Flows and Stages series of reports.

TABLE 279

SUTTER BYPASS AT STATE PUMPING PLANT #1
Flood Period November 1956 through June 1957

Daily staff gage height in feet (a)

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	23.6	26.6	26.8	22.6	37.6	27.2	27.4	28.4	17	25.0	26.7	23.4	26.6	32.0	29.2	28.1	28.9
2	24.2	26.8	26.2	22.5	36.4	27.2	27.3	28.8	18	25.1	26.7	23.2	27.0	31.7	29.4	28.0	29.0
3	25.2	27.0	22.8	22.4	36.0	27.0	27.7	28.2	19	25.2	26.8	23.1	27.0	31.6	29.2	30.2	28.7
4	25.0	27.0	22.3	22.3	36.1	26.0	28.2	27.6	20	25.2	26.8	23.0	27.1	31.4	29.2	32.4	28.6
5	24.9	27.1	22.2	22.2	36.8	27.1	28.4	28.8	21	25.0	26.8	22.9	27.1	31.3	29.4	33.6	28.7
6	24.9	27.2	22.2	22.2	37.8	28.2	28.6	28.7	22	24.6	26.8	23.0	27.0	31.0	29.4	34.7	29.0
7	24.6	27.3	22.2	22.2	38.5	28.6	28.8	28.4	23	24.7	26.8	23.2	27.2	30.6	29.1	34.4	28.8
8	25.2	27.3	22.2	22.2	38.8	28.7	28.8	28.3	24	25.3	26.8	23.1	25.9	30.2	28.9	33.2	28.6
9	25.2	27.4	22.1	22.2	38.6	28.6	28.8	28.3	25	25.6	26.8	23.0	31.7	29.4	28.4	32.6	28.8
10	25.2	27.4	22.1	22.2	37.9	28.8	28.6	28.2	26	25.8	26.8	22.8	36.1	28.2	28.2	31.8	28.7
11	25.2	27.5	22.1	22.2	36.8	28.8	28.5	28.3	27	26.0	26.9	22.8	37.5	26.8	28.1	31.4	28.6
12	25.3	27.3	22.8	22.2	35.6	28.8	28.4	28.6	28	26.2	26.9	22.8	38.1	26.4	28.0	30.6	28.6
13	25.3	27.2	22.9	22.4	34.4	28.8	28.2	28.7	29	26.3	26.9	22.6	-	27.8	28.0	30.8	29.0
14	25.4	27.0	23.6	25.1	33.7	29.1	28.2	28.8	30	26.4	26.9	22.6	-	27.5	27.6	30.5	29.2
15	25.0	26.8	25.0	25.8	33.0	29.4	28.2	28.8	31	-	26.8	22.6	-	27.2	-	29.6	-
16	25.0	26.7	24.0	26.2	32.4	29.2	28.2	28.9									

a Average gage height of two daily readings.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. by
			NO MEASUREMENTS				

STATION DESCRIPTION

Sutter Bypass at State Pumping Plant # 1

Department of Water Resources station on east levee of Sutter Bypass, three miles north of Nelson Slough. Staff gage set on U.S.E.D. Datum, read twice daily and at crest stages by pump operators. Period of record, 1920 to date. Stages published in reports of Department of Water Resources. Highest observed stage, 49.4 feet, March 1, 1940. Formerly presented as station number 37 in Flood Flows and Stages series of reports.

TABLE 280

SUTTER BYPASS AT RECLAMATION DISTRICT # 1500 PUMPING PLANT
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	18.8	15.0	14.3	14.2	35.3	20.4	15.8	22.9	17	16.1	15.3	17.3	14.7	29.8	18.4	18.9	15.4
2	18.6	15.0	14.4	14.2	34.6	20.1	16.4	22.4	18	16.0	15.3	16.6	14.6	29.5	18.5	18.8	14.9
3	17.8	*15.0	14.3	14.2	34.1	19.5	17.5	22.0	19	15.8	15.2	15.8	14.8	28.9	19.6	24.7	14.8
4	17.3	15.1	14.3	14.1	33.9	19.0	17.9	21.3	20	15.7	15.3	15.5	15.0	28.0	20.0	31.0	14.6
5	17.0	*15.2	14.2	13.9	34.5	18.6	17.8	20.5	21	15.7	15.4	16.2	15.3	27.1	20.0	33.4	14.3
6	16.8	*15.2	14.2	13.7	35.5	18.2	17.6	20.0	22	15.7	15.2	16.6	16.0	26.2	20.1	33.8	14.1
7	16.7	15.3	14.0	13.7	35.8	18.0	17.8	19.6	23	15.7	15.2	16.6	17.4	25.3	20.1	33.4	14.1
8	16.6	15.2	14.0	13.8	35.6	17.7	18.0	18.9	24	15.6	15.0	15.9	22.0	24.4	19.6	32.3	14.0
9	16.6	15.0	14.2	14.1	35.4	17.4	18.2	18.3	25	15.4	14.8	15.3	29.3	23.5	18.6	30.7	13.9
10	16.6	14.9	14.4	14.3	35.1	17.0	18.8	17.8	26	15.2	14.8	15.0	35.4	22.7	17.9	28.9	13.7
11	16.6	14.9	14.4	14.1	34.5	16.7	18.7	17.4	27	15.0	14.8	14.8	35.9	21.9	16.9	27.5	13.5
12	16.6	15.1	14.4	14.0	33.6	16.3	18.8	17.2	28	15.0	14.7	14.6	35.8	21.1	16.1	26.4	13.3
13	16.5	15.3	14.8	14.1	33.0	16.0	18.6	16.9	29	14.9	14.6	14.4	-	20.4	15.7	25.5	13.3
14	16.4	15.4	16.8	14.2	32.4	16.0	18.8	16.4	30	14.9	14.5	14.3	-	20.2	15.5	24.7	13.3
15	16.2	15.4	18.8	14.3	31.3	18.0	19.0	16.0	31	-	14.5	14.2	-	20.4	-	23.7	-
16	16.2	15.4	18.4	14.5	30.3	19.0	19.0	15.7									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-27-57	12:00 Noon	36.0						
3-7-57	6:00 AM	35.8						
4-22-57	2:00 PM	20.3						
5-22-57	5:40 AM	33.9						

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Sutter Bypass at Reclamation District # 1500 Pumping Plant

Department of Water Resources station on west levee of Sutter Bypass at Sacramento Slough at District drainage pumping plant. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Period of record, 1915 to date. Prior to 1942, staff gage only. Stages published in reports of Department of Water Resources. Highest observed stage, 41.1 feet, March 1, 1940. Department of Water Resources receives stage reports by telephone daily from observer at this station. Formerly presented as station number 38 in Flood Flows and Stages series of reports.

TABLE 281

FEATHER RIVER NEAR OROVILLE
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	11.4	8.5	8.2	8.6	24.1	14.2	15.4	14.8	17	9.9	8.5	9.5	9.6	18.1	15.8	11.8	10.6
2	10.7	7.4	7.8	9.0	22.2	13.6	17.3	14.4	18	9.8	8.6	9.4	11.3	16.6	16.3	29.6	10.5
3	10.7	8.7	8.3	8.5	21.0	13.4	16.6	13.5	19	9.8	9.1	9.3	11.6	15.6	14.9	31.8	10.0
4	10.4	8.5	8.0	8.2	22.0	13.5	15.8	13.2	20	9.7	9.1	10.7	12.2	15.2	14.1	26.5	9.4
5	10.0	8.7	7.0	8.0	28.2	13.6	15.8	12.9	21	9.7	8.6	9.8	13.1	15.2	13.9	24.0	9.8
6	10.5	8.7	7.1	8.0	28.1	13.7	15.7	12.8	22	9.7	8.4	9.4	14.4	14.9	14.7	21.9	9.7
7	11.0	8.2	7.4	8.2	24.9	13.4	15.0	12.5	23	9.6	7.8	9.2	24.5	14.1	15.0	19.8	9.2
8	11.0	8.2	8.2	9.1	22.8	13.6	15.3	12.3	24	9.3	8.0	8.9	45.6	13.7	14.1	18.9	9.4
9	11.0	7.4	8.9	9.0	23.7	13.1	15.9	12.2	25	8.5	7.8	9.0	45.8	13.5	14.0	18.1	9.5
10	10.9	7.7	8.2	8.2	21.9	13.1	14.3	12.3	26	8.2	8.1	9.0	40.9	13.3	13.3	16.9	9.1
11	10.9	8.3	8.0	8.7	20.0	13.1	13.3	12.7	27	8.2	7.9	8.5	36.1	13.2	13.3	16.7	8.9
12	11.0	8.5	9.7	8.8	21.8	13.0	13.0	12.3	28	8.4	7.6	8.4	28.1	13.3	13.4	16.1	8.9
13	10.9	8.6	13.3	9.5	20.2	12.9	12.8	11.7	29	8.5	7.9	8.5	-	13.7	13.5	15.5	8.8
14	10.9	8.6	11.2	10.1	18.7	18.2	13.0	11.2	30	8.5	7.9	8.5	-	15.2	14.7	15.2	8.7
15	10.6	8.5	10.2	10.4	18.8	17.2	12.7	10.9	31	-	8.4	8.6	-	15.1	-	14.9	-
16	10.2	8.4	9.7	10.9	19.2	14.6	11.6	10.0									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	1:00 PM	16.4	4-14-57	1:00 PM	20.8			
2-24-57	6:00 PM	52.8	5-18-57	7:00 PM	39.8			
2-26-57	4:00 PM	44.3						
3-5-57	6:00 PM	28.9						

STATION DESCRIPTION

Feather River near Oroville

U. S. Geological Survey and Department of Water Resources cooperative station on left bank of Feather River, three and one-half miles east of Oroville, 150 feet east of the Feather River bridge on the Oroville-Quincy Highway. Continuous water stage recorder and staff gage with zero set at elevation 182.02 feet, U.S.G.S. Datum. Department of Water Reaources maintains an automatic short wave radio water stage broadcaster at this station. Rating curve extended for flows in excess of 62,000 second-feet by means of velocity-area and slope-area studies. Period of record at this station, 1934 to date. (Records available 1902 to 1934 at other station five miles downstream at Oroville.) Dischargea published in U.S.G.S. Water Supply Papers. Flood season stages published in reports of Department of Water Resources. Maximum recorded stage and discharge, 1934 to 1957, 76.77 feet and 203,000 second-feet, December 23, 1955. Maximum stage and discharge, estimated from high water marks at this site and measurements at Oroville, 80.5 feet and 230,000 second-feet, March 19, 1907. Formerly presented as station number 39 in Flood Flows and Stages series of reports.

Note: No measurements are included; for correasponding discharges see stream flow table for this station.

TABLE 282

FEATHER RIVER NEAR GRIDLEY
Flood Period November 1956 through June 1957

Daily mean gage height in feet																	
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	78.7	77.5	77.7	78.0	84.8	79.7	79.1	79.1	17	78.1	77.5	78.3	78.4	81.2	79.6	77.9	77.2
2	78.4	77.2	77.6	78.0	83.7	79.4	79.6	79.1	18	78.0	77.5	78.3	78.6	80.8	80.0	81.6	77.3
3	78.3	77.5	77.7	77.9	83.0	79.3	79.6	78.7	19	78.0	77.7	78.3	78.8	80.3	79.6	86.7	77.2
4	78.3	77.5	77.8	77.8	82.9	79.3	79.3	78.6	20	77.9	77.7	78.7	79.0	80.4	79.3	84.2	76.7
5	78.1	77.5	77.6	77.7	84.5	79.3	79.2	78.4	21	77.9	77.5	78.5	79.3	80.1	79.2	83.1	76.6
6	78.1	77.6	77.3	77.8	85.3	79.3	79.2	78.4	22	77.9	77.5	78.3	79.8	80.1	79.3	82.1	76.8
7	78.4	77.4	77.6	77.8	84.5	79.3	79.1	78.3	23	77.9	77.3	78.2	81.3	79.8	79.6	81.2	76.6
8	78.4	77.4	77.7	78.0	83.6	79.3	79.0	78.2	24	77.8	77.3	78.1	89.4	79.6	79.2	80.7	76.4
9	78.4	77.2	78.1	78.1	83.4	79.1	79.3	78.1	25	77.6	77.3	78.1	94.0	79.6	79.2	80.4	76.6
10	78.4	77.3	77.9	77.9	83.2	79.1	79.0	78.1	26	77.5	77.3	78.1	91.1	79.5	78.8	80.0	76.3
11	78.3	77.4	77.8	77.8	82.5	79.0	78.5	78.3	27	77.4	77.3	77.9	90.0	79.4	78.6	79.8	75.9
12	78.4	77.5	78.3	77.9	82.6	78.9	78.4	78.2	28	77.5	77.2	77.9	86.7	79.4	78.5	79.6	75.9
13	78.4	77.5	79.2	78.1	82.4	78.9	78.4	78.0	29	77.5	77.3	77.9	-	79.5	78.5	79.5	75.9
14	78.4	77.5	79.1	78.3	81.6	80.0	78.4	77.7	30	77.5	77.3	77.9	-	79.9	78.6	79.2	75.8
15	78.3	77.6	78.6	78.5	81.4	80.5	78.4	77.5	31	-	77.4	77.9	-	79.9	-	79.2	-
16	78.2	77.5	78.4	78.7	81.7	79.6	78.1	77.4									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-25-57	5:00 AM	95.2						
2-26-57	10:00 PM	92.0						
4-14-57	7:00 PM	81.3						
5-19-57	00:30 AM	88.4						

STATION DESCRIPTION

Feather River near Gridley

Department of Water Resources station on left bank of Feather River on downstream side of abutment of bridge on Gridley-Oroville Road two and one-half miles east of Gridley. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Flood season stages from 1929 to date are published in reports of the Department of Water Resources. Highest recorded stage, 102.25 feet, December 23, 1955. Formerly presented as station number 41 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for thia station.

TABLE 283

YUBA RIVER AT ENGLEBRIGHT DAM
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1					2.4	1.4	1.4	2.5	17					1.9	1.5	1.4	0.9
2					2.1	1.2	1.7	2.6	18					1.8	1.7	4.7	0.8
3					2.0	1.2	1.7	2.4	19					1.6	1.6	6.4	0.8
4					2.3	1.2	1.5	2.2	20				NO	1.5	1.5	4.2	0.8
5					4.1	1.2	1.7	2.2	21				RECORD	1.6	1.4	3.2	0.8
6	NO	NO	NO	NO	4.0	1.2	1.9	2.1	22	NO	NO	NO		1.5	1.4	3.0	0.8
7					3.2	1.2	1.9	1.9	23					1.4	1.4	2.7	0.7
8	RECORD	RECORD	RECORD	RECORD	3.1	1.2	1.8	1.8	24	RECORD	RECORD	RECORD		1.3	1.3	2.5	0.7
9					2.6	1.1	1.7	1.7	25					1.3	1.3	2.3	0.6
10					2.3	1.2	1.5	1.5	26					1.2	1.2	2.3	0.6
11					2.0	1.2	1.5	1.3	27				3.9	1.2	1.2	2.5	0.6
12					2.4	1.1	1.3	1.2	28				2.9	1.2	1.3	2.7	0.5
13					2.3	1.1	1.3	1.2	29				-	1.3	1.3	2.6	0.5
14					2.0	1.6	1.3	1.2	30				-	1.4	1.4	2.5	0.5
15					2.1	1.7	1.3	1.1	31	-			-	1.4	-	2.4	-
16					2.2	1.4	1.2	1.0									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
3-5-57	11:00 PM	4.5						
4-14-57	6:00 PM	2.1						
5-18-57	11:00 PM	9.1						

STATION DESCRIPTION

Yuba River at Englebright Dam

U. S. Geological Survey station on left bank upstream from the spillway of Narrows Dam one mile upstream from Deer Creek and two and one-half miles northeast of Smartville. Continuous water stage recorder and staff gage with zero set at elevation 526.99 feet, U.S.G.S. Datum. Spillway rated by U.S.G.S. Flows at Smartville are the sum of measured flows of Yuba River over the spillway, flows through the Power House turbines and flows on Deer Creek near Smartville. Period of record, 1941 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge 17.67 feet and 148,000 second-feet, respectively, on December 23, 1955. Period of record at abandoned site at Smartville, 1903 to 1941. Maximum recorded stage and discharge at Smartville 31.2 feet and 120,000 second-feet, March 26, 1928. Formerly published as Yuba River at Narrows Dam. station number 42 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 284

YUBA RIVER AT MARYSVILLE
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	45.3	45.2	45.3	45.6		48.4	47.7	50.1	17	45.3	45.3	45.6	45.7	50.5	48.4	47.3	45.8
2	45.3	45.2	45.3	45.6	NO	48.1	48.1	50.3	18	45.2	45.3	45.6	45.7	49.9	49.3	50.4	45.5
3	45.3	45.2	45.3	45.6		47.9	48.6	49.9	19	45.2	45.3	45.6	45.6	49.5	48.9	61.0	45.3
4	45.3	45.3	45.3	45.6	RECORD	47.8	47.9	49.5	20	45.3	45.3	46.9	45.7	49.2	48.5	57.3	45.3
5	45.3	45.4	45.2	45.6		47.8	48.0	49.4	21	45.3	45.3	46.3	*46.1	49.0	48.1	54.4	45.2
6	45.3	45.4	45.2	45.6		47.8	48.6	49.3	22	45.3	45.3	45.9	*47.3	48.9	48.0	52.7	45.0
7	45.4	45.3	45.3	45.6		47.7	48.8	49.0	23	45.2	45.3	*45.7	*48.7	48.6	47.9	51.7	45.0
8	45.4	45.3	45.5	45.9	52.9	47.5	NR	48.4	24	45.2	45.3	45.6	56.7	48.3	47.8	50.9	44.8
9	45.4	45.3	45.5	46.0	52.3	47.3	NR	48.1	25	45.2	45.3	*45.6	*64.2	48.1	47.7	50.3	44.7
10	45.3	45.3	45.4	45.8	51.9	47.3	48.1	47.8	26	45.2	45.3	*45.6	*62.7	48.0	47.5	50.2	*44.6
11	45.3	45.3	45.5	45.7	51.0	47.3	48.0	47.2	27	45.2	45.3	*45.6	*60.8	47.9	47.4	50.1	NR
12	45.3	45.3	45.5	45.6	51.7	47.2	47.5	46.6	28	45.2	45.3	*45.6	*57.9	47.8	47.3	50.6	NR
13	45.3	45.3	46.2	45.7	51.5	47.1	47.3	46.4	29	45.2	45.3	*45.6	-	47.9	47.4	50.6	NR
14	45.3	45.3	46.0	45.7	50.7	48.2	47.4	46.3	30	45.2	45.3	*45.6	-	48.9	47.6	50.2	NR
15	45.3	45.3	45.7	45.7	50.5	49.4	47.3	46.4	31	-	45.3	*45.6	-	48.3	-	50.0	-
16	45.3	45.3	45.6	45.6	51.2	48.3	47.0	46.1									

* Estimated

CREST STAOES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	2:30 PM	46.9	4-15-57	1:00 AM	49.9			
1-20-57	12:30 PM	48.3	5-19-57	6:00 AM	62.4			
2-8-57	11:40 PM	46.3						
2-25-57	9:00 AM	64.6						

STATION DESCRIPTION

Yuba River at Marysville

U. S. Geological Survey and Department of Water Resources cooperative station near left bank of Yuba River at Simpson Lane Bridge one-half mile upstream from Marysville. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Period of record, 1940 to date. Records published in reports of Department of Water Resources. Low and medium flows published in U.S.G.S. Water Supply Papers. High flows affected by backwater from Feather River. Station washed out in December 1955 and replaced in April 1956. Maximum recorded stage and discharge, 72.04 feet and 78,800 second-feet, November 21, 1950; maximum estimated stage and discharge, 81.5 feet and 136,000 second-feet, probably December 23, 1955. Formerly published as Yuba River at Simpson Lane Bridge, station number 43 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 285

FEATHER RIVER AT YUBA CITY
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	44.3	41.9	41.4	41.7	53.2	45.1	44.0	45.6	17	42.7	41.9	42.2	42.5	47.6	44.8	42.7	41.7
2	43.4	41.9	41.4	41.8	50.4	44.6	44.5	45.8	18	42.6	41.9	42.1	42.3	46.8	45.6	44.7	41.6
3	43.2	41.6	41.4	41.8	49.2	44.4	45.2	45.2	19	42.5	42.0	42.1	42.8	46.1	45.4	NR	41.5
4	43.1	42.0	41.5	41.6	49.1	44.3	44.6	44.7	20	42.5	42.2	42.7	43.0	46.0	44.8	NR	41.3
5	42.9	42.0	41.5	41.5	52.1	44.4	44.4	44.6	21	42.5	42.0	42.9	43.4	45.5	44.5	NR	40.9
6	42.7	42.0	41.0	41.4	54.6	44.3	44.6	44.4	22	42.5	41.9	42.4	44.2	45.6	44.4	50.6	40.9
7	43.0	42.0	41.2	41.6	53.4	44.3	44.7	44.0	23	42.5	41.8	42.1	*45.8	45.2	44.8	49.1	40.9
8	43.1	41.8	41.4	41.6	51.2	44.3	44.3	43.7	24	42.4	41.6	42.0	*53.5	44.9	44.4	48.0	40.7
9	43.1	41.8	41.6	42.0	50.3	44.1	44.6	43.5	25	42.2	41.7	41.9	63.0	44.7	44.2	47.2	40.7
10	43.1	41.6	41.7	41.8	50.2	43.9	44.5	43.3	26	42.0	41.6	41.9	61.3	44.6	43.8	46.8	40.6
11	43.0	41.7	41.5	41.5	48.8	43.9	43.8	43.2	27	41.8	41.7	41.8	60.2	44.4	43.4	46.4	40.4
12	43.0	41.8	41.7	41.7	48.6	43.8	43.4	43.0	28	41.9	41.6	41.6	56.9	44.4	43.3	46.6	40.1
13	43.1	41.9	42.7	41.8	49.1	43.7	43.2	42.7	29	41.9	41.5	41.7	-	44.5	43.2	46.5	40.1
14	43.0	41.9	43.8	42.1	48.0	44.3	43.2	42.5	30	42.0	41.7	41.7	-	45.0	43.3	45.9	40.0
15	43.0	42.0	42.8	42.3	47.5	46.6	43.3	42.2	31	-	41.6	41.7	-	45.1	-	45.8	-
16	42.8	41.9	42.4	42.5	48.2	45.4	42.9	42.1									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	4:00 AM	44.4	4-15-57	6:00 AM	47.0			
1-20-57	10:00 PM	43.2	4-18-57	7:00 PM	46.0			
2-25-57	3:00 PM	64.2						
3-6-57	12:00 Noon	54.8						

STATION DESCRIPTION

Feather River at Yuba City

Department of Water Resources station near right bank of Feather River on downstream side of Sacramento Northern Railroad Bridge at Yuba City. Continuous water stage recorder and staff and wire weight gages set on U.S.E.D. Datum. Period of record 1943 to date. Records published in reports of Department of Water Resources. Stages affected by backwater from Yuba River. Maximum recorded stage, 82.42 feet, December 24, 1955, at time of Levee District No. 1 levee failure in the vicinity of Gum Tree Station approximately two miles downstream. Formerly presented as station number 45T in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 286

FEATHER RIVER BELOW SHANGHAI BEND
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	38.1	35.9		36.0	48.8	40.1	39.2	41.3	17	36.6		36.5	36.8	43.0	39.8	38.0	36.8
2	37.2	35.8		36.1	46.0	39.6	39.8	41.5	18	36.4		36.4	36.5	42.2	40.8	40.5	36.7
3	36.9	35.5		36.1	44.6	39.3	40.7	41.0	19	36.3		36.4	37.0	41.3	40.6	53.5	36.6
4	36.9	35.9	NO	35.9	44.5	39.2	40.0	40.4	20	36.4		37.0	37.2	41.1	39.9	52.1	36.4
5	36.7	35.9	RECORD	35.8	47.6	39.2	39.8	40.1	21	36.4		37.3	37.6	40.6	39.5	49.0	36.0
6	36.6	36.0		35.8	50.2	39.2	40.2	40.0	22	36.3	NO	36.8	38.6	40.6	39.3	46.7	36.0
7	36.8	35.9		35.9	49.1	39.2	40.3	39.6	23	36.4	RECORD	36.5	40.2	40.2	39.6	45.1	36.0
8	36.9	35.8		36.0	47.1	39.0	39.9	39.1	24	36.3		36.4	48.2	39.9	39.3	43.8	
9	36.9	35.7		36.4	45.9	38.8	40.1	38.9	25	36.2		36.3	57.5	39.6	39.1	43.0	NO
10	36.9	35.5		36.1	45.8	38.7	39.9	38.7	26	35.9		36.2	56.5	39.5	38.7	42.6	
11	36.8	35.6	35.8	35.9	44.4	38.7	39.2	38.5	27	35.8		36.1	55.5	39.3	38.3	42.2	RECORD
12	36.8	35.7	35.9	36.0	44.0	38.6	38.7	38.2	28	35.8		36.0	52.5	39.3	38.2	42.4	
13	36.9	35.8	36.9	36.1	44.7	38.5	38.5	38.0	29	35.8		36.0	-	39.4	38.1	42.3	
14	36.8	NR	38.0	36.4	43.5	39.1	38.5	37.7	30	35.9		36.0	-	40.0	38.2	41.7	
15	36.8	NR	37.1	36.6	42.8	41.8	38.6	37.4	31	-		36.0	-	40.1	-	41.5	-
16	36.7	NR	36.7	36.8	43.7	40.4	38.2	37.3									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	6:30 AM	38.5	2-25-57	3:45 PM	58.8	4-18-57	7:00 PM	41.2
1-20-57	8:30 PM	37.7	3-6-57	12:00 Noon	50.4	5-19-57	1:45 PM	54.5
2-9-57	2:00 PM	36.6	3-30-57	7:00 PM	40.5			
2-17-57	1:00 PM	37.0	4-15-57	7:30 AM	42.1			

STATION DESCRIPTION

Feather River below Shanghai Bend

Department of Water Resources station on right bank of Feather River about five miles south of Yuba City. Continuous water stage recorder and ataff set on U.S.E.D. Datum. Records available for flood periods from 1926 to date published in reports of Department of Water Resources. High flows rated by means of simultaneous current meter measurementa of discharge of Feather River at Yuba City and Yuba River at Marysville with appropriate time lag allowsnces. Maximum recorded stage and discharge, 70.4 feet and 205,000 second-feet, December 11, 1937. On December 24, 1955, a stage of approximately 76.8 feet was reached, as determined by flood marks, st time of levee failure in the vicinity of Gum Tree Station approximately two miles upatream. Formerly presented as station number 46 in Flood Flows and Stages aeries of reports.

Note: No measurementa are included; for corresponding diacharges see stream flow table for this station.

TABLE 287

BEAR RIVER NEAR WHEATLAND
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.8	1.9	2.6	2.0	3.8	3.8	2.4	1.9	17	2.2	2.0	2.2	2.0	4.2	1.9	2.4	1.6
2	2.6	1.8	2.3	2.0	3.4	3.8	2.6	1.6	18	2.2	2.0	2.1	2.0	4.1	3.3	5.9	1.6
3	2.5	1.8	2.5	2.1	3.2	3.6	3.0	2.3	19	2.1	2.0	2.1	2.0	4.2	3.6	9.0	1.5
4	2.4	1.9	2.3	2.0	3.5	3.6	2.8	2.6	20	2.1	2.0	3.2	1.7	4.0	3.3	6.3	1.4
5	2.3	2.2	2.0	2.0	7.1	3.5	2.6	2.5	21	2.1	2.0	3.1	1.8	4.0	3.1	5.5	1.4
6	2.3	2.6	2.0	2.0	6.6	3.4	2.4	2.4	22	2.1	2.1	2.5	2.5	3.9	2.9	4.7	1.4
7	2.3	2.4	2.0	2.0	5.1	3.4	2.3	2.4	23	2.1	2.0	2.2	4.6	3.8	2.8	4.2	1.4
8	2.2	2.2	2.0	2.5	4.4	3.3	2.4	2.4	24	2.0	2.0	2.2	6.8	3.8	2.7	3.9	1.4
9	2.3	21.	2.0	2.6	4.7	3.2	2.5	2.4	25	2.0	2.0	2.1	8.2	3.8	2.6	3.6	1.4
10	2.4	2.1	2.0	2.4	4.2	3.3	2.7	2.4	26	2.0	2.0	2.1	5.7	3.8	2.4	3.4	1.4
11	2.3	2.4	2.0	2.4	3.8	3.2	2.6	2.3	27	2.0	2.0	2.1	5.0	3.8	2.4	3.3	1.5
12	2.2	2.4	2.1	2.4	4.1	2.9	2.5	2.3	28	2.0	2.0	2.1	4.0	3.7	2.4	3.2	1.4
13	2.0	2.1	3.1	2.2	4.2	2.8	2.5	2.2	29	2.0	2.0	2.0	-	3.6	2.2	3.1	1.4
14	2.1	2.0	3.3	2.1	3.9	2.8	2.5	2.0	30	2.0	2.0	2.0	-	3.7	2.3	3.0	1.5
15	2.2	2.0	2.6	2.1	4.2	2.9	2.6	1.8	31	-	2.3	2.0	-	3.6	-	2.6	-
16	2.2	2.0	2.3	2.1	4.9	2.5	2.4	1.7									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	11:00 AM	4.0	3-5-57	11:00 AM	7.6			
1-20-57	12:00 Noon	4.3	4-18-57	6:00 PM	4.0			
2-8-57	10:00 PM	3.0	5-18-57	12:00 Mid.	12.1			
2-25-57	2:00 AM	10.1						

STATION DESCRIPTION

Bear River near Wheatland

U. S. Geological Survey station near middle of downstream side of U. S. Highway 99E bridge over Bear River, one mile southeast of Wheatland. Continuous water stage recorder and staff gage with zero set at elevation 78.92 feet, U.S.G.S. Datum. Period of record, 1928 to date. Discharges published in U.S.G.S. Water Supply Papers. Prior to October 1943 gage at several sites within 100 feet of present gage and at Datum 2.58 feet higher. Maximum recorded stage 20.83 feet, November 21, 1950, corresponding to a flow of 29,000 second-feet. Maximum recorded discharge 33,000 second-feet with a stage of 19.30 feet, December 22, 1955. Formerly presented as station number 47 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 288

DRY CREEK NEAR WHEATLAND
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	4.5	NO FLOW	NO FLOW	3.7	5.2	4.7	4.2	3.0	17	NO FLOW	NO FLOW	4.0	3.8	4.9	4.7	3.2	3.1
2	4.2			3.7	5.0	4.4	4.4	3.1	18			3.9	3.8	4.7	5.4	5.8	3.0
3	4.0			3.7	5.0	4.2	4.7	3.7	19			3.8	3.8	4.6	5.2	6.6	NO FLOW
4	3.8			3.7	6.1	4.1	4.4	3.7	20			4.8	3.8	4.5	4.9	5.3	
5	3.7			3.7	7.0	4.1	4.2	3.5	21			5.1	4.4	4.4	4.7	5.2	
6	3.7			3.6	6.0	4.0	4.2	3.4	22		NO FLOW	4.6	5.9	4.3	4.6	4.9	
7	3.6	*3.4		3.6	5.4	4.0	4.2	3.4	23			4.2	6.6	4.2	4.5	4.6	
8	3.6	*3.4		3.8	5.2	4.0	4.2	3.5	24			4.0	7.5	4.2	4.4	4.5	
9	3.5			4.8	5.3	3.9	4.3	3.4	25			3.9	6.7	4.3	4.5	4.3	
10	3.5			4.4	5.1	3.9	4.4	3.3	26	*3.4		3.8	6.4	4.3	4.5	4.2	
11	3.5	NO FLOW		4.1	4.9	3.9	4.5	3.4	27	3.4		3.8	6.1	4.2	4.4	4.2	
12	NO FLOW		3.6	4.0	4.8	3.9	4.5	3.4	28	3.4		3.8	5.3	4.2	4.4	4.2	
13			4.3	4.0	4.8	3.9	4.5	3.2	29	3.4		3.8	-	4.0	4.3	4.0	3.0
14			5.0	3.9	4.7	4.7	4.4	2.9	30	NP		3.7	-	4.1	4.2	3.8	*3.0
15			4.4	3.9	4.7	4.8	4.5	2.9	31	-		3.7	-	4.2	-	3.2	-
16			4.1	3.9	5.5	4.6	4.0	3.1									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	8:30 PM	5.4	4-14-57	7:00 PM	5.2			
1-20-57	3:30 PM	6.3	5-18-57	12:00 PM	8.6			
2-24-57	4:30 PM	8.6						
3-5-57	1:00 AM	7.6						

STATION DESCRIPTION

Dry Creek near Wheatland

U. S. Geological Survey and Department of Water Resources cooperative station on left bank of Dry Creek 2,300 feet upstream from U. S. Highway 99E, 1.3 miles northwest of Wheatland. Continuous water stage recorder and staff gage with zero set at elevation 62.83 feet, U.S.G.S. Datum. Period of record October 1946 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum stage and discharge 13.45 feet and 8,790 second-feet, December 23, 1955. Overbank flow into Best Slough upstream from this station occurs at high stages. Formerly presented as station number 47A in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 289

FEATHER RIVER AT NICOLAUS
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	27.4	24.2	24.2	24.4	39.5	29.8	27.2	29.8	17	25.1	24.2	25.1	25.3	33.8	28.7	26.1	24.6
2	26.2	24.2	24.2	24.5	37.5	29.3	27.6	29.8	18	25.0	24.2	25.0	25.0	32.9	29.7	26.4	24.2
3	25.6	23.9	24.0	24.6	36.2	28.8	29.2	29.6	19	24.8	24.2	24.9	25.4	32.0	30.2	38.8	24.1
4	25.5	24.1	24.2	24.4	37.0	28.6	28.8	29.0	20	24.8	24.4	25.3	25.6	31.3	29.4	40.3	23.9
5	25.3	24.2	24.2	24.3	37.7	28.6	28.3	28.4	21	24.8	24.4	26.5	26.0	30.8	28.7	38.7	23.6
6	25.1	24.4	23.9	24.2	39.6	28.5	28.4	28.3	22	24.8	24.2	25.7	27.1	30.6	28.4	37.2	23.4
7	25.2	24.5	23.7	24.2	39.6	28.4	28.7	28.0	23	24.8	24.2	25.2	28.8	30.0	28.5	36.1	23.4
8	25.4	24.3	24.0	24.3	38.6	*28.2	28.4	27.3	24	24.8	24.0	24.9	35.8	29.6	28.5	35.0	23.2
9	25.5	24.2	24.2	24.9	37.8	*28.1	28.3	27.0	25	24.6	24.0	24.7	42.6	29.2	28.0	33.6	23.0
10	25.5	23.9	24.5	24.8	37.5	27.9	28.5	26.8	26	24.3	23.9	24.7	43.7	29.0	27.7	32.4	23.0
11	25.4	23.9	24.3	24.5	36.5	27.8	27.8	26.6	27	24.2	24.0	24.7	42.7	28.8	27.2	31.4	22.8
12	25.4	24.2	24.2	24.5	35.6	27.6	27.1	26.3	28	24.1	23.9	24.5	41.5	28.7	27.0	31.3	22.6
13	25.4	24.2	24.1	24.6	35.9	27.4	26.8	25.9	29	24.2	23.8	24.4	-	28.7	26.8	31.2	22.4
14	25.3	24.2	27.0	24.7	35.0	27.6	26.7	25.6	30	24.2	23.9	24.5	-	29.2	26.9	30.7	22.4
15	25.3	24.2	26.2	25.0	33.9	30.6	26.8	25.2	31	-	23.9	24.4	-	29.7	-	30.3	-
16	25.3	24.2	25.4	25.1	34.3	30.0	26.5	24.9									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	2:30 PM	27.5	5-19-57	2:00 AM	30.7			
1-21-57	7:00 AM	26.8	5-20-57	1:00 AM	40.8			
2-25-57	11:00 PM	44.5						
4-15-57	3:00 PM	31.2						

STATION DESCRIPTION

Feather River at Nicolaus

U. S. Geological Survey and Department of Water Resources cooperative station on left bank of Feather River about 2,000 feet downstream from old Nicolaus Bridge. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Period of record 1920 to date. Discharges published in U. S. Geological Survey Water Supply Papers, summer season only prior to April 1943. Flood season stages published in reports of Department of Water Resources. Flood stages affected by backwater from Sutter Bypass. Maximum recorded stage, 51.6 feet, December 23, 1955, at time of levee failure immediately downstream. (Prior to October 1945, U. S. Weather Bureau maintained a gage at east end of Nicolaus Bridge with zero set at 24.83 feet, U.S.E.D. Datum. Gage reset on U.S.E.D. Datum and minus 3.25 U.S.C.S. Datum during that month. Records published in reports of U. S. Weather Bureau for period 1911 to date.) Formerly presented as station number 48 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 290

FREMONT WEIR AT EAST END
Flood Period November 1956 through June 1957

Daily mean gage height in feet																		
Date	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1									17							NF	
2									18							NF	
3									19							NF	
4									20				NO			NF	
5									21				FLOW			33.7	
6	NO	NO	NO	NO	NO	NO	NO	NO	22	NO	NO	NO		NO	NO	33.8	NO
7									23							33.7	
8	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	24	FLOW	FLOW	FLOW		FLOW	FLOW		FLOW
9									25								
10									26				*34.9				
11									27				34.9				
12									28				34.9				
13									29				-				
14									30				-				
15									31	-			-		-		-
16																	

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
5-22-57	5:00 AM	33.8						

STATION DESCRIPTION

Fremont Weir at East End

Department of Water Resources station about 200 feet north of east end of Fremont Weir. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Crest of weir at elevation 33.5 feet. Period of record 1935 to 1941 and 1942 to date. Stages during periods of flow over weir published in reports of Department of Water Resources. Flows over weir rated by means of measurements in Yolo Bypass. Maximum recorded stage, 39.3 feet, March 1, 1940. Formerly presented as station number 49 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 291

FREMONT WEIR AT WEST END
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	20.2	16.6	15.7	15.3	35.6	21.6	16.4	23.9	17	17.5	17.0	18.7	15.6	30.6	19.2	20.3	16.6
2	20.2	16.6	15.7	15.3	35.0	21.3	17.0	23.4	18	17.4	NR	17.8	15.6	30.6	19.1	20.2	16.1
3	19.5	16.6	15.6	15.3	34.7	20.7	18.0	23.1	19	17.3	NR	17.0	15.7	29.8	20.3	25.9	15.9
4	18.9	16.6	15.6	15.2	34.7	20.2	18.6	22.4	20	17.2	NR	16.7	15.9	29.0	21.0	31.9	15.7
5	18.6	16.7	15.5	15.0	35.1	19.7	18.5	21.6	21	17.2	17.0	17.4	16.2	28.1	21.2	34.4	15.5
6	18.3	16.8	15.4	14.8	35.8	19.3	18.3	21.1	22	17.3	16.9	18.2	16.7	27.2	21.6	34.6	15.4
7	18.1	17.0	15.2	14.8	36.0	19.1	18.6	20.7	23	17.2	16.8	17.9	17.9	26.4	21.3	34.4	15.3
8	18.1	16.8	15.4	14.8	35.9	18.7	18.8	20.0	24	17.0	16.7	17.1	22.7	25.6	20.7	33.2	15.2
9	18.1	16.7	15.6	15.1	35.7	18.4	19.0	19.3	25	16.9	16.5	16.5	30.8	24.6	19.6	31.3	15.0
10	18.1	16.6	15.8	15.3	35.5	18.0	19.5	18.9	26	16.8	16.4	16.2	35.6	23.8	18.9	29.3	14.8
11	18.1	16.6	15.8	15.2	35.0	17.5	19.6	18.5	27	16.7	16.4	16.0	36.0	23.1	17.8	27.7	14.6
12	18.0	16.8	15.9	15.1	34.4	17.0	19.8	18.4	28	16.6	16.4	15.8	36.0	22.4	17.0	26.7	14.5
13	17.8	17.0	16.5	15.1	33.9	16.7	20.0	18.0	29	16.5	16.3	15.6	-	21.7	16.4	26.1	14.6
14	17.7	17.1	18.3	15.2	33.4	16.6	20.2	17.6	30	16.6	16.1	15.4	-	21.3	16.2	25.3	14.5
15	17.6	17.1	20.7	15.3	32.2	18.4	20.3	17.2	31	-	16.0	15.3	-	21.5	-	24.5	-
16	17.6	17.0	19.9	15.4	31.0	19.6	20.4	16.8									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-15-57	2:30 PM	20.8						
2-27-57	9:00 PM	36.1						
3-7-57	6:00 AM	36.0						
5-22-57	5:00 AM	34.7						

STATION DESCRIPTION

Fremont Weir at West End

Department of Water Resources, U. S. Geological Survey and U. S. Department of the Army cooperative station about 500 feet westerly from west end of Fremont Weir. Continuous water stage recorder and staff gage sat on U.S.E.D. Datum. Department of Water Resources maintains an eutometic short wave radio water stage broadcaster at this station. Crest of weir at elevation 33.5 feet. Period of record 1934 to date. Records published in reports of Department of Water Resources. Flows over weir rated by means of measurements in Yolo Bypass. Maximum recorded stage, 39.72 feet, December 23, 1955. Formerly presented as station number 50 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 292

SACRAMENTO RIVER AT VERONA
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	17.8	14.1	13.5	13.2	34.0	19.5	14.5	21.7	17	15.0	14.4	16.1	13.6	28.6	17.7	17.8	14.2
2	17.4	14.1	13.5	13.2	33.3	19.2	15.1	21.3	18	14.9	14.4	15.3	13.6	28.3	17.4	17.6	13.7
3	16.7	14.0	13.4	13.2	32.6	18.6	16.2	21.0	19	14.7	14.3	14.7	13.6	27.6	18.3	22.5	13.6
4	16.2	14.0	13.4	13.2	32.5	18.2	16.8	20.3	20	14.7	14.4	14.4	13.8	26.6	19.0	29.5	13.3
5	15.9	14.1	13.3	13.0	33.2	17.8	16.6	19.5	21	14.7	14.4	15.1	14.1	25.6	19.0	32.3	13.0
6	15.6	14.3	13.2	12.8	34.5	17.4	16.4	19.0	22	14.7	14.3	15.7	14.7	24.7	19.1	32.7	12.9
7	15.5	14.4	13.0	12.8	34.8	17.2	16.7	18.6	23	14.7	14.3	15.5	16.1	23.9	19.1	32.3	12.8
8	15.6	14.3	13.2	12.9	34.6	16.9	16.9	17.9	24	14.5	14.1	14.8	21.2	23.1	18.6	31.1	12.7
9	15.6	14.2	13.3	13.2	34.3	16.6	17.0	17.4	25	14.4	14.0	14.2	29.0	22.2	17.7	29.3	12.6
10	15.6	14.0	13.5	13.3	33.9	16.2	17.5	16.8	26	14.2	13.9	14.0	34.2	21.4	16.8	27.4	12.4
11	15.6	14.0	13.6	13.2	33.2	15.8	17.5	16.4	27	14.1	13.9	13.8	34.7	20.8	15.8	25.7	12.2
12	15.4	14.2	13.6	13.1	32.4	15.4	17.4	16.2	28	14.1	13.9	13.6	34.6	20.2	15.0	24.6	12.0
13	15.3	14.4	14.3	13.1	31.9	15.1	17.4	15.8	29	14.0	13.8	13.4	-	19.5	14.6	24.1	12.1
14	15.2	14.5	15.9	13.2	31.2	15.0	17.5	15.3	30	14.0	13.7	13.3	-	19.2	14.4	23.3	12.0
15	15.1	14.5	17.7	13.3	30.1	16.3	17.7	14.9	31	-	13.6	13.2	-	19.5	-	22.6	-
16	15.1	14.5	17.2	13.4	29.1	18.0	17.9	14.5									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
11-1-56	10:00 AM	17.8						
1-14-57	2:00 PM	17.9						
2-27-57	10:00 PM	34.8						
5-21-57	4:00 AM	32.8						

STATION DESCRIPTION

Sacramento River at Verona

U. S. Geological Survey and Department of Water Resources cooperative station on left bank of Sacramento River on bridge over mouth of Natomas Cross Canal, 0.8 mile southeast of Verona. Continuous water stage recorder and staff gage set 0.06 foot below U.S.E.D. Datum. Station rated by means of current meter measurements in conjunction with river stages at Sacramento to allow for effect of backwater from American River. Period of record 1926 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge, 41.20 feet and 79,200 second-feet, March 1, 1940. Department of Water Resources receives stage reports by telephone daily from observer at this station. Formerly presented as station number 51 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 293

SACRAMENTO RIVER AT PRITCHARD LAKE
Flood Period November 1956 through June 1957

Daily staff gage height in feet (a)

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	16.5					18.2	13.4	20.7	17						16.4	16.5	13.0
2						18.0	13.9	20.0	18						17.0	16.4	12.7
3						17.4	14.9	19.9	19						17.1	21.1	12.4
4						16.9	15.6	19.2	20						17.7	27.8	12.3
5						16.5	15.4	18.4	21					NO	17.5	31.0	12.0
6		NO	NO	NO	NO	16.1	15.2	17.8	22	NO	NO	NO	NO	RECORD	17.9	31.6	12.0
7	NO					15.9	15.4	17.5	23						17.8	31.6	11.7
8		RECORD	RECORD	RECORD	RECORD	15.6	15.7	16.8	24	RECORD	RECORD	RECORD	RECORD		17.5	30.5	11.7
9	RECORD					15.4	15.8	16.0	25						16.5	28.7	11.6
10						15.0	16.4	15.6	26						15.9	26.3	11.3
11						14.7	16.5	15.3	27						15.0	24.8	11.4
12						14.2	16.3	15.0	28						14.0	23.6	11.3
13						13.9	16.2	14.8	29				-	18.1	13.5	23.0	11.0
14						13.7	16.4	14.3	30				-	NR	13.4	22.4	10.9
15						14.7	16.6	13.8	31	-			-	NR	-	21.4	-
16						16.8	16.7	13.3									

a Individual daily ataff gage readings only.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

Sacramento River at Pritchard Lake

Reclamation District No. 1000 atation on left bank of Sacramento River, five miles downstream from Verona at District pumping plant. Staff gage set on U.S.E.D. Datum. Period of record 1915 to date. Records published in reports of Department of Water Resources. Maximum observed stage, 39.5 feet, February 8, 1942. Formerly presented as atation number 52 in Flood Flows and Stages series of reports.

TABLE 294

SACRAMENTO RIVER AT SACRAMENTO WEIR
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1		9.2	8.7	8.1		12.7	9.7		17	9.6	9.3	9.9	8.6		11.9	12.0	9.0
	10.7	8.2	7.7	7.2	25.9	12.4	8.7	15.5		8.8	8.3	9.4	7.8	21.4	11.3	11.4	8.2
2	10.8	9.2	8.5	7.9		12.5	9.9		18	9.7	9.3	9.4	8.6		11.7	11.9	8.7
	10.4	8.2	7.7	7.3	25.3	12.1	9.1	14.9		8.7	8.3	8.9	7.7	20.9	11.3	11.5	*7.7
3	10.3	9.2	8.5	7.9		12.1	10.2		19	9.3	9.1	8.9	8.7		12.4		8.5
	9.8	8.2	7.6	7.2	24.7	11.6	9.4	14.6		8.6	8.3	8.4	7.6	20.0	11.8	15.7	*7.6
4	10.2	9.3	8.3	7.8		11.8	10.8		20	9.5	9.1	9.2	8.6		12.7		
	9.6	8.1	7.6	7.2	24.5	11.3	10.2	14.0		8.5	8.2	8.4	7.7	19.1	12.3	21.9	8.6
5	10.0	9.2	8.0	7.7		11.4	10.7		21	9.4	8.9	9.4	8.9		12.5		
	9.4	8.3	7.5	7.0	26.7	11.0	10.1	13.3		8.6	8.3	8.6	7.9	18.2	12.3	25.2	8.5
6	9.7	8.9	7.9	7.7		11.3	10.8		22	9.3	8.7	9.7	9.1		12.6		8.3
	9.2	8.3	7.3	6.9	29.5	10.8	10.2	12.8		8.6	8.2	9.0	8.3	17.3	12.5	25.7	7.1
7	9.5	8.7	7.8	8.1		10.9	10.6		23	9.1	8.6	9.6	10.7		12.6		8.3
	9.0	8.2	7.0	6.9	29.0	10.5	10.2	12.6		8.6	8.0	8.8	9.7	16.6	12.2	25.5	7.2
8	9.4	8.5	8.3	8.2		10.8	10.7		24	9.1	8.6	9.3			12.3		8.6
	8.9	8.1	7.2	7.1	27.8	10.3	10.4	12.2		8.4	7.9	8.6	12.9	15.8	12.1	24.4	*7.2
9	9.4	8.3	8.2	8.2		10.5	10.8		25	9.0	8.9	8.9			11.8		8.6
	8.9	7.8	7.4	7.1	27.3	10.1	10.4	11.8		8.3	7.7	8.2	19.0	14.9	11.2	22.4	7.2
10	9.4	8.4	8.4	8.5		10.3	11.3	11.8	26	8.9	8.9	8.7			11.2		8.8
	8.9	7.7	7.4	7.3	26.0	10.0	10.6	11.0		8.2	7.8	7.9	24.6	14.0	10.8	20.6	7.2
11	9.5	8.6	8.8	8.4		10.2	11.5	11.6	27	8.9	8.6	8.6			10.7		8.8
	8.9	7.8	7.6	7.4	25.1	9.7	11.0	10.7		8.1	7.8	7.8	26.2	13.5	10.1	19.1	7.2
12	9.5	8.8	9.0	8.4		9.9	11.4	11.4	28	9.0	8.7	8.6		13.2	10.0		8.9
	9.0	7.9	7.6	7.2	24.4	9.3	10.9	10.4		8.1	7.8	7.7	26.3	12.9	9.4	18.0	7.2
13	9.6	9.0	9.9	8.5		9.6	11.4	11.0	29	9.0	8.8	8.4		12.7	10.0		9.0
	8.9	8.1	8.0	7.3	23.9	9.0	10.9	10.1		8.1	7.8	7.5	-	12.4	9.5	17.7	7.2
14	9.3	9.1	10.4	8.5		9.8	11.8	10.4	30	9.1	8.8	8.3		12.4	10.2		8.6
	8.7	8.2	8.8	7.4	23.3	9.0	11.2	9.4		8.1	7.8	7.4	-	12.2	9.5	17.3	7.2
15	9.4	9.2	11.3	8.5			12.0	9.8	31		8.8	8.1		12.6			
	8.8	8.3	10.3	7.5	22.4	10.2	11.5	8.9		-	7.8	7.3	-	12.3	-	16.5	-
16	9.5	9.3	10.8	8.6			12.0	9.4									
	8.8	8.3	10.3	7.6	21.7	11.8	11.6	8.5									

Note: Single daily values indicata daily mean stages only.

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-15-57	7:00 PM	11.3	4-20-57	12:00 Noon	12.7			
2-28-57	7:00 AM	26.4	5-22-57	12:00 Noon	25.7			
3-6-57	8:30 PM	29.9						
4-1-57	9:00 AM	12.7						

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Sacramento River at Sacramento Weir

U. S. Geological Survey and Department of Water Resources cooperative station on pile dolphin on right bank of Sacramento River about 100 feet downstream from Sacramento Weir. Continuous water stage recorder and staff gage with zero set on 0.00 feet, U.S.E.D. Datum and minus 3.07 feet, U.S.C.S. Datum. Floor and top of movable gates of weir constructed to elevations 25.0 and 31.0 feet, respectively. Period of record, 1926 to date during flood seasons. Stage records published in reports of Department of Water Resources. Station rated for flows over Sacramento Weir by means of measurementa in Sacramento Bypass, in conjunction with records of number of closed and open gates, of which there are 48, each 38.1 feet in length. Maximum stages therefore do not necessarily indicate maximum flows over the weir. The only flow through the weir was seepage through the closed gates which occurred during the period February 26 through March 11, 1957. Seepage occurs only when the recorder on the Sacramento River opposite the weir records a water stage higher than 25.0 feet. Highest recorded stage and estimated discharge over the weir with all gates open, 32.8 feet and 118,000 second-feet, March 26, 1928. With 46 gates open, 32.85 feet and 110,300 second-feet, November 21, 1950. Highest recorded stage 33.09 feet, December 23, 1955. Formerly presented as station number 53 in Flood Flows and Stages series of reports.

TABLE 295

SACRAMENTO RIVER AT SECOND BANNON SLOUGH
Flood Period November 1956 through June 1957

Daily staff gage height in feet (a)																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	9.8	8.0	7.4	7.2	25.0	11.6	9.0	15.6	17	8.4	7.8	9.6	7.8	20.8	11.1	11.2	9.3
2	9.4	8.2	7.5	7.1	24.4	11.5	8.7	15.1	18	8.4	7.8	8.4	7.5	20.4	11.2	11.0	7.8
3	9.2	8.0	7.4	6.9	23.8	11.2	8.6	14.0	19	8.4	7.8	8.0	7.3	19.2	11.5	14.0	7.4
4	8.8	7.8	7.4	6.8	23.6	10.9	9.2	13.6	20	8.4	7.8	8.0	7.4	18.4	11.9	20.9	7.6
5	8.6	7.7	7.6	6.6	26.2	10.6	9.9	12.8	21	8.2	7.8	8.0	7.5	17.3	11.6	24.4	8.0
6	8.4	7.4	7.6	6.6	29.2	10.4	10.0	12.2	22	8.4	7.9	8.1	8.1	16.6	11.6	25.0	7.4
7	8.4	7.3	7.6	6.8	28.6	10.1	10.2	12.0	23	8.2	8.0	8.4	9.6	16.0	11.6	24.9	7.5
8	8.4	7.3	7.4	7.0	27.3	10.0	10.2	12.0	24	8.1	8.0	8.2	12.2	14.6	11.4	23.8	7.8
9	8.5	7.3	7.3	7.2	26.8	9.9	10.2	11.0	25	7.9	7.9	8.0	17.6	13.7	11.0	21.0	7.6
10	8.6	7.6	7.4	7.3	25.2	9.7	10.4	11.0	26	7.6	7.8	7.9	23.6	13.2	10.4	20.0	8.2
11	8.6	7.7	7.6	7.4	24.3	9.5	10.6	11.0	27	7.6	8.0	8.1	25.2	12.7	10.2	18.6	8.2
12	8.7	8.0	8.4	7.6	23.5	9.3	10.5	10.8	28	7.6	7.8	7.7	25.4	12.2	9.7	17.4	8.1
13	8.6	8.2	8.9	7.8	23.0	9.2	10.5	10.0	29	8.0	7.7	7.6	-	12.0	8.9	17.2	8.2
14	8.8	8.1	9.0	7.8	22.5	9.3	11.0	10.0	30	7.9	7.5	7.5	-	11.8	8.9	17.0	7.4
15	8.6	8.0	10.0	7.8	21.4	9.4	11.2	8.7	31	-	7.4	7.2	-	11.9	-	16.3	-
16	8.5	7.8	10.2	7.6	21.0	11.2	11.2	8.6									

a Individual daily staff gage readings only.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Sacramento River at Second Bannon Slough

Reclamation District No. 1000 atation on left bank of Sacramento River at District drainage pumping plant one mile upstream from mouth of American River. Staff gage set on U.S.E.D. Datum. Period of record, 1915 to date. Records published in reports of Department of Water Resources. Higheat observed atage, 33.4 feet, November 21, 1950. Formerly presented as station number 55 in Flood Flows and Stages series of reports.

TABLE 296

AMERICAN RIVER AT FAIR OAKS
Flood Period November 1956 through June 1957

Daily mean gage height in feet																	
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.2	3.0	2.6	1.9	5.1	3.5	3.2	5.9	17		2.6	1.2	2.3	6.2		4.4	4.4
2	2.2	3.0	2.7	1.9	5.1	3.5	3.1	5.9	18		2.6	1.9	2.3	5.5		4.5	3.7
3	2.0	3.0	2.7	1.9	5.1	3.4	3.0	5.9	19		2.7	1.9	2.3	4.9		5.0	3.7
4	3.0	2.5	2.6	1.9	6.0	3.5	3.0	5.6	20		2.7	1.9	2.2	4.2		7.7	3.7
5		2.6	2.5	2.2	10.4	3.6	3.0	5.4	21		2.7	1.9	2.4	4.9		8.0	3.7
6		2.6	2.2	2.2	12.3	3.5	3.0	5.5	22		2.7	1.9	2.8	5.0		8.0	3.7
7		2.6	2.5	2.2	9.8	3.5	3.0	5.4	23		2.7	1.9	2.8	5.0		7.8	3.7
8		2.6	2.6	2.2	8.5	3.5	3.0	5.5	24		2.6	1.9	3.2	4.6		6.5	3.7
9	NO	2.6	2.6	2.2	7.7	3.4	3.0	5.5	25		2.6	1.9	3.4	3.9		5.9	3.7
10	RECORD	2.6	2.6	2.2	5.3	3.4	3.0	5.4	26		2.6	1.9	4.5	3.5	*4.7	6.0	3.8
11		2.6	1.8	2.2	5.1	3.5	3.0	5.4	27		2.6	1.9	5.1	3.4	4.6	6.0	3.7
12		2.6	2.0	2.2	5.1	*3.4	3.0	5.0	28		2.7	1.9	5.1	3.4	4.8	6.2	3.7
13		2.6	2.0	2.2	5.2	NR	3.5	5.0	29		2.7	1.9		3.4	5.2	6.6	3.8
14		2.6	2.0	2.2	5.2	NR	4.5	4.4	30	*3.0	2.7	1.9	-	3.4	5.0	6.8	3.8
15		2.6	1.9	2.2	5.3	NR	4.4	4.4	31	-	2.7	1.8	-	3.5	-	6.6	-
16		2.5	1.9	2.3	6.2	NR	4.4	4.4									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
3-6-57	12:00 Mid.	12.7						
5-21-57	1:00 AM	8.1						

STATION DESCRIPTION

American River at Fair Oaks

U. S. Geological Survey station on right bank of American River immediately upstream from county road bridge one-half mile southeast of Fair Oaks. Continuous water stage recorder and staff gage set with zero at elevation 64.79 feet, U.S.G.S. Datum. Period of record, 1904 to date. (Prior to November 7, 1930, zero of gage was set at elevation 65.79 feet, U.S.O.S. Datum). Discharges published in U.S.G.S. Water Supply Papers; flood season stages in reports of Department of Water Resources. Maximum recorded stage and discharge, 31.85 feet, and 190,000 second-feet, November 21, 1950. Formerly presented as station number 57 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 297

AMERICAN RIVER AT SACRAMENTO
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	18.0	18.6	18.3	17.9	24.6	19.0	19.0	21.3	17	18.7	18.3	17.7	18.2	22.2	20.0	19.8	19.7
2	18.0	18.6	18.4	17.9	24.1	19.0	18.7	21.3	18	18.7	18.3	18.0	18.2	21.6	20.0	19.8	19.2
3	18.0	18.6	18.4	17.9	23.6	19.0	18.7	21.3	19	18.7	18.3	17.8	18.2	20.6	20.0	20.0	19.1
4	18.6	18.3	18.3	17.9	23.6	19.0	18.7	21.0	20	18.7	18.3	17.9	18.2	20.1	20.0	23.6	19.1
5	18.6	18.3	18.2	18.0	27.9	19.1	18.6	20.8	21	18.7	18.3	17.8	18.2	20.3	20.0	25.5	19.1
6	18.7	18.3	18.1	18.1	31.7	19.0	18.6	20.8	22	18.7	18.4	17.8	18.5	20.3	20.0	26.0	19.1
7	18.6	18.3	18.2	18.1	30.0	19.0	18.6	20.8	23	18.7	18.4	17.8	18.5	20.3	20.0	25.8	19.1
8	18.7	18.3	18.3	18.1	27.9	19.0	18.6	20.8	24	18.7	18.3	17.8	18.7	20.0	20.0	24.3	19.1
9	18.7	18.3	18.3	18.1	27.1	19.0	18.6	20.8	25	18.7	18.3	17.8	19.2	19.5	20.0	22.5	19.1
10	18.7	18.3	18.3	18.1	24.9	18.9	18.6	20.8	26	18.7	18.3	17.8	22.9	19.0	20.0	21.8	19.1
11	18.7	18.3	17.8	18.1	24.0	19.0	18.6	20.8	27	18.7	18.3	17.8	24.8	18.9	20.0	21.5	19.1
12	18.7	18.3	17.9	18.1	23.4	19.0	18.6	20.4	28	18.6	18.3	17.8	25.0	18.9	20.1	21.6	19.2
13	18.7	18.3	17.9	18.1	23.0	19.0	18.8	20.3	29	18.6	18.4	17.9	-	18.9	20.5	22.0	19.2
14	18.7	18.3	17.9	18.2	22.6	18.9	19.7	19.8	30	18.6	18.4	17.8	-	18.9	20.4	22.2	19.2
15	18.8	18.3	17.9	18.2	22.0	19.0	19.7	19.7	31	-	18.4	17.8	-	19.0	-	22.1	-
16	18.8	18.2	17.9	18.2	22.3	20.0	19.7	19.7									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
11-16-56	4:00 AM	18.8	5-23-57	10:30 AM	26.0			
2-28-57	6:00 AM	25.0						
3-6-57	7:30 PM	32.0						
4-29-57	6:00 PM	20.6						

STATION DESCRIPTION

American River at Sacramento

U. S. Geological Survey and Department of Water Resources cooperative station on left bank at "N" Street Bridge over American River immediately east of the City of Sacramento. Continuous water stage recorder, and staff and wire weight gages with zero set on 0.00 feet, U.S.E.D. Datum and minus 3.07 feet, U.S.G.S. Datum. Period of record, 1926 to date. Summer discharges published in U.S.G.S. Water Supply Papers; flood season stages and discharge measurements in reports of Department of Water Resources. Highest recorded stage, 45.75 feet, November 21, 1950. The U. S. Weather Bureau and Department of Water Resources cooperatively maintain a "telemark" water stage indicator at this station operable by call over P.T. & T. Company system. Formerly published as American River at "N" Street Bridge, station number 58T in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 298

AMERICAN RIVER AT ELVAS
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	10.6	11.3	11.0	10.1	24.4	12.4	11.9	15.9	17	11.5	10.8	10.4	10.5	20.4	13.3	13.1	12.9
2	10.8	11.3	10.9	10.1	23.8	12.3	11.6	15.6	18	11.5	10.9	10.5	10.5	20.0	13.3	13.2	12.3
3	10.8	11.3	11.0	10.1	23.2	12.1	11.5	15.5	19	11.5	11.0	10.3	10.5	18.7	13.4	14.8	12.2
4	11.3	11.0	10.9	10.1	23.1	12.1	11.5	15.1	20	11.4	10.9	10.3	10.5	17.8	13.4	20.8	12.2
5	11.4	10.9	10.8	10.1	26.4	12.1	11.5	14.6	21	11.5	10.9	10.3	10.6	17.1	13.5	24.2	12.1
6	11.4	10.9	10.8	10.4	29.9	12.0	11.5	14.5	22	11.4	11.0	10.3	11.1	16.3	13.5	24.8	12.1
7	11.4	10.9	10.6	10.4	28.7	12.0	11.5	14.5	23	11.5	11.0	10.3	11.3	15.8	13.4	24.7	12.1
8	11.4	10.9	10.8	10.5	27.1	11.9	11.5	14.4	24	11.5	10.9	10.2	12.4	14.9	13.3	23.4	12.1
9	11.4	10.9	10.9	10.5	26.4	11.9	11.5	14.4	25	11.5	10.9	10.2	16.9	14.1	13.3	21.2	12.1
10	11.4	10.9	10.8	10.5	24.6	11.7	11.6	14.4	26	11.5	10.9	10.2	22.8	13.2	13.2	19.6	12.1
11	11.4	10.9	10.7	10.5	23.7	11.8	11.6	14.4	27	11.4	10.9	10.2	24.6	12.8	13.3	18.4	12.1
12	11.5	10.9	10.3	10.5	23.0	11.8	11.6	13.9	28	11.3	10.9	10.2	24.8	12.5	13.4	17.6	12.0
13	11.5	10.9	10.3	10.5	22.5	11.7	11.8	13.8	29	11.3	11.0	10.2	-	12.4	13.9	17.7	12.1
14	11.5	10.9	10.4	10.5	21.9	11.8	13.0	13.2	30	11.3	11.0	10.2	-	12.2	13.8	17.6	12.1
15	11.5	10.9	10.4	10.5	21.1	11.8	13.1	13.0	31	-	11.0	10.1	-	12.3	-	17.2	-
16	11.5	10.8	10.5	10.5	20.7	13.2	13.1	13.0									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-18-57	3:30 AM	11.1						
2-28-57	7:00 AM	24.9						
3-6-57	7:00 PM	30.3						
5-22-57	1:00 PM	24.9						

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

American River at Elvas

Department of Water Resources station on Southern Pacific Railroad Bridge over American River immediately east of Sacramento on third concrete pier from left bank. Weekly water stage recorder and staff gage set on U.S.E.D. Datum, since July 1, 1938. Period of record, 1928 to date. Continuous water stage recorder installed in new well, October 1952. During flood of March 1928, zero of gage was set at 6.06 feet, U.S.E.D. Datum. From 1929 to 1938 zero of gage was set at minus 1.26 feet, U.S.E.D. Datum, Records published in reports of Department of Water Resources. Maximum recorded stage (converted to U.S.E.D. Datum) 40.5 feet, November 21, 1950. Formerly presented as station number 59 in Flood Flows and Stages series of reports.

TABLE 299

AMERICAN RIVER AT GARDEN HIGHWAY
Flood Period November 1956 through June 1957

Daily mean gage height in feet.

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1					23.8	NR		
2					23.5	NR		
3					NR	a 9.9		
4					NR	9.9		
5					a 27.0	9.8		
6	NO	NO	NO	NO	27.0	9.7	NO	NO
7					26.3	9.5		
8	RECORD	RECORD	RECORD	RECORD	25.9	9.5	RECORD	RECORD
9					a 25.5	9.4		
10					NR	NO RECORD		
11					NR			
12					a 22.9			
13					22.7			
14					NR			
15					NR			
16					NR			
17					NR			
18					NR			
19					NR			
20					a 17.8			
21					17.5			
22	NO	NO	NO	NO RECORD	17.0	NO	a 24.7	NO
23					16.7		24.6	
24	RECORD	RECORD	RECORD		16.3	RECORD	24.0	RECORD
25					15.9		23.2	
26				a 23.5	15.4		NO RECORD	
27				23.4	a 15.1			
28				24.0	NR			
29				-	NR			
30				-	NR			
31	-			-	NR	-	-	

a Recorded Period

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	State
2-28-57	8:00 AM	24.0						
3-6-57	7:00 AM	27.2						

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

American River at Garden Highway

Department of Water Resources atation near right bank of American River on downstream side of highway bridge over American River and adjacent overflow area, at confluence with Sacramento River. Weekly water atage recorder and staff gage aet on U.S.E.D. Datum. Period of record 1936 to date. Recorda publiahed in reports of Department of Water Resources. Maximum recorded atage, 33.8 feet, November 21, 1950. Formerly presented as atation number 60 in Flood Flows and Stages aeries of reports.

TABLE 300

SACRAMENTO RIVER AT SACRAMENTO
Flood Period November 1956 through June 1957

Daily mean gage height in feet																	
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1		4.4	4.0	3.5	21.1	8.0	5.2	11.0	17	4.8	4.5	5.5	4.2	16.7	7.4	7.4	4.7
2		4.5	4.0	3.6	20.5	7.7	5.2	10.5	18	4.8	4.4	5.0	4.1	16.2	7.2	7.3	4.2
3		4.5	4.0	3.4	19.8	7.3	5.6	10.3	19	4.6	4.4	4.5	4.0	15.2	7.7	10.7	4.1
4		4.5	3.9	3.3	19.6	7.0	6.0	9.7	20	4.6	4.4	4.7	3.9	14.3	8.1	17.0	4.0
5		4.6	3.7	3.1	22.1	6.8	6.0	9.0	21	4.6	4.4	4.7	4.1	13.4	8.0	20.3	3.7
6	NO RECORD	4.4	3.6	3.1	25.4	6.7	6.2	8.5	22	4.6	4.2	4.9	4.5	12.6	8.1	21.1	3.5
7		4.2	*3.6	3.3	24.8	6.3	6.1	8.3	23	4.6	4.0	4.8	5.9	11.9	8.0	20.9	3.6
8		3.9	*3.6	3.5	23.4	6.2	6.2	8.0	24	4.4	3.9	4.5	8.2	11.0	7.8	19.7	3.8
9		3.7	3.5	3.4	22.8	6.1	6.3	7.6	25	4.4	3.8	4.3	13.6	10.4	7.2	17.6	3.9
10		3.7	3.6	3.6	21.3	5.8	6.6	7.2	26	4.3	3.8	4.1	19.4	9.4	6.7	15.9	4.0
11		3.8	3.8	3.7	20.3	5.7	6.7	7.0	27	4.2	3.8	3.9	21.2	8.8	6.2	14.5	4.1
12		4.0	4.0	3.6	19.6	5.4	6.7	6.8	28	4.3	3.9	4.0	21.4	8.4	5.7	13.5	4.3
13		4.1	4.8	3.7	19.1	5.1	6.7	6.4	29	4.2	4.0	3.8	-	8.0	5.8	13.3	4.3
14		4.3	5.0	3.8	18.5	5.2	7.2	5.7	30	4.3	4.1	3.7	-	7.8	5.9	12.8	4.2
15		4.4	6.2	4.0	17.7	5.8	7.4	5.4	31	-	4.2	3.5	-	7.9	-	12.1	-
16		4.4	6.2	4.1	17.1	7.4	7.5	4.9									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-15-57	5:30 PM	7.1	4-1-57	8:30 AM	8.3			
1-25-57	1:00 PM	5.5	4-20-57	1:30 PM	8.3			
2-28-57	6:30 AM	21.5	5-22-57	12:30 PM	21.1			
3-6-57	9:00 PM	25.8						

STATION DESCRIPTION

Sacramento River at Sacramento

U. S. Weather Bureau and Department of Water Reaources station on left bank of Sacramento River. Weather Bureau staff gage set on east face of downstream end of first pier beyond left bank on Southern Pacific Railroad bridge at foot of "I" Street, City of Sacramento. Department of Water Resources continuous water stage recorder in shelter house on wharf of Old Pioneer Mill Company about 300 feet upstream from bridge. The gage was destroyed December 1955 and a new one installed November 1956, 800 feet upstream from "I" Street Bridge in left bank. The U. S. Weather Bureau and the Department of Water Resources cooperatively maintain a "telemark" water stage indicator at this station, operable by call over P. T. & T. Company system. Zero of staff gage and recorders set at elevation 3.10 feet, U.S.E.D. Datum and 0.12 foot, U.S.G.S. Datum, prior to November 1956, subsequent elevation set at 2.98 feet U.S.E.D. Datum, and 0.00 feet U.S.G.S. Datum. Period of continuous record, 1893 to date. Maximum recorded stage prior to construction of Sacramento Weir 29.6 feet, January 17, 1909. Maximum recorded stage and discharge subsequent to construction of Sacramento Weir, 30.14 feet and 104,000 second-feet, November 21, 1950. Formerly published as Sacramento River at "I" Street Bridge, station number 61T in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 301

SACRAMENTO RIVER AT CLARKSBURG
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	8.1 5.7	7.8 5.1	7.4 4.9	6.8 4.5	17.8 17.6	8.8 7.4	7.9 5.6	10.7 9.4	17	7.6 5.2	7.8 5.2	7.7 6.0	7.3 5.3	14.2 13.8	8.1 6.5	8.7 7.0	6.7 4.9
2	7.8 6.3	7.8 5.1	7.2 4.9	6.5 4.8	17.4 17.0	8.3 7.1	8.6 5.7	10.3 9.1	18	7.9 5.3	7.8 5.2	7.4 5.6	7.4 5.2	14.0 13.5	8.0 6.0	8.5 7.2	6.8 4.7
3	7.8 6.0	7.8 5.2	7.2 4.8	6.4 4.6	16.7 16.5	8.3 6.9	7.7 5.7	9.9 8.8	19	7.4 5.3	7.4 5.2	7.0 5.3	7.4 5.2	13.2 12.6	•8.0 •6.5	9.7	7.1 4.9
4	7.9 5.7	8.0 5.2	6.8 4.9	6.3 4.5	16.4 16.2	8.3 6.5	7.9 6.0	9.4 8.3	20	7.6 5.1	7.4 5.1	7.6 5.3	7.1 5.0	12.7 11.8		13.5	7.1 5.0
5	7.6 5.7	7.8 5.4	6.4 4.7	6.3 4.3	18.2	7.9 6.5	7.9 6.1	9.4 8.0	21	7.5 5.1	7.0 5.2	7.2 5.4	7.3 5.2	11.9 11.1		16.5	7.2 4.7
6	7.2 5.4	7.1 5.3	6.3 4.5	6.4 4.3	20.5	7.8 6.1	8.3 6.5	9.2 7.6	22	7.3 5.1	6.6 5.0	7.4 5.4	7.2 5.4	11.2 10.3		17.3	7.1 4.7
7	7.0 5.2	6.5 5.1	6.5 4.4	6.9 4.6	20.3	7.0 5.6	7.8 6.1	9.2 7.7	23	7.0 5.1	6.6 4.7	7.5 5.5	8.6 6.5	10.5 9.8	NO	17.3	7.1 4.7
8	6.6 5.1	6.2 4.8	7.0 4.5	7.1 4.7	19.2	7.4 5.8	7.7 6.4	9.3 7.7	24	6.7 5.0	6.7 4.6	7.5 5.3	9.4 6.5	10.2 9.1	RECORD	16.5	7.5 4.8
9	6.6 5.0	6.0 4.4	6.7 4.7	6.9 4.6	18.3	7.1 5.6	7.9 6.4	9.4 7.4	25	6.8 4.8	6.8 4.6	7.4 5.1	11.0	9.6 8.5		15.0	7.6 4.8
10	6.7 5.1	6.3 4.4	7.0 4.7	7.3 4.8	17.7	7.0 5.6	8.2 6.7	9.1 7.0	26	7.0 4.9	6.9 4.8	7.2 5.1	15.7	9.1 8.1		14.1 13.3	7.9 5.0
11	6.9 5.2	6.8 4.6	7.5 5.0	7.3 4.8	16.8	7.0 5.4	8.4 6.7	9.0 6.8	27	7.2 4.9	7.1 4.8	7.1 4.9	17.5	8.8 8.1		13.0 12.3	8.1 5.1
12	7.1 5.3	7.0 4.8	7.8 5.3	7.3 4.7	16.6 16.0	6.9 5.1	8.5 6.7	8.9 6.6	28	7.4 5.1	7.2 4.8	7.3 4.8	17.9 17.7	8.6 7.8		12.4 11.5	8.3 5.3
13	7.3 5.5	7.2 5.1	8.6 5.8	7.5 4.7	16.1 15.8	6.8 5.0	8.4 6.6	8.6 6.3	29	7.5 5.0	7.3 4.8	7.1 4.8	-	8.6 7.6		12.2 11.4	8.3 5.3
14	7.0 5.2	7.4 5.1	8.3 5.8	7.4 4.9	15.7 15.4	7.4 5.2	8.7 7.0	8.2 5.9	30	7.6 5.0	7.6 4.9	7.0 4.8	-	8.4 7.3	8.2 6.3	12.0 11.0	7.9 5.2
15	7.2 5.3	7.6 5.2	8.5 6.1	7.3 5.0	15.1 14.7	7.1 5.3	8.7 7.0	7.8 5.5	31	-	7.4 5.0	6.8 4.6	-	8.5 7.4	-	11.5 10.3	-
16	7.4 5.3	7.8 5.2	8.2 6.5	7.4 5.0	14.4 14.2	8.0 6.2	8.7 7.0	7.1 5.1									

* Estimated

Note: Single daily values indicate daily mean stage only.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-28-57	5:30 PM	18.0						
3-6-57	9:30 PM	20.9						
5-23-57	3:00 AM	17.4						

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Sacramento River at Clarksburg

Department of Water Resources station on right bank of Sacramento River at Clarksburg on dock of American Crystal Sugar Company. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Period of record, 1936 to date. Records published in reports of Department of Water Resources. Highest recorded stage, 23.95 feet, December 23, 1955. Formerly presented as station number 62 in Flood Flows and Stages series of reports.

TABLE 302

SACRAMENTO RIVER AT SNODGRASS SLOUGH
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	7.5 4.7	7.4 4.3	6.9 4.2	6.4 3.8	15.2 14.8	7.8 6.1	7.4 4.7	9.5 7.9	17	7.2 4.3	7.3 4.4	7.2 5.1	6.9 4.6	12.8 11.6	7.7 5.7	7.9 5.8	6.2 4.0
2	7.2 5.2	7.4 4.3	6.7 4.1	6.1 4.0	14.9 14.5	7.4 5.9	7.5 4.8	9.1 7.5	18	7.4 4.4	7.3 4.4	6.9 4.6	6.9 4.4	12.0 11.3	7.7 5.6	7.6 6.0	6.2 3.9
3	7.2 4.9	7.4 4.4	6.8 4.1	5.9 3.9	14.3 13.9	7.4 5.7	7.2 4.7	8.8 7.3	19	6.9 4.4	6.9 4.3	6.5 4.5	7.0 4.4	11.5 10.6	7.4 5.9	8.0	6.3 4.1
4	7.3 4.7	7.5 4.5	6.4 4.2	5.9 3.8		7.5 5.3	7.3 5.0	8.5 6.9	20	7.2 4.2	6.9 4.2	7.1 4.5	6.7 4.3	11.1 10.0	7.5 5.9	11.1	6.7 4.3
5	7.0 4.7	7.3 4.6	6.0 4.0	5.8 3.6		7.1 5.2	7.2 5.0	8.4 6.7	21	7.0 4.2	6.5 4.3	6.7 4.6	6.9 4.4	10.8 9.2	7.1 5.8	13.7	6.7 4.0
6	6.7 4.5	6.6 4.5	5.8 3.8	6.0 3.6		7.4 5.4	7.7 5.4	8.3 6.4	22	6.8 4.2	6.1 4.1	6.8 4.5	6.8 4.5	9.6 8.5	7.0 5.8	14.5	6.6 4.1
7	6.5 4.3	6.0 4.3	6.0 3.6	7.0 4.0		6.6 4.8	7.1 5.1	8.3 6.5	23	6.5 4.2	6.0 3.9	7.0 4.6	8.1 5.5	9.0 8.1	7.1 5.7	14.5	6.7 4.0
8	6.0 4.1	5.7 3.9	6.5 3.9	6.7 4.0	NO	7.0 5.1	7.1 5.3	8.5 6.5	24	6.2 4.1	6.2 3.8	7.0 4.4	8.5 5.5	8.5 7.5	7.0 5.7	13.9	7.0 4.2
9	6.1 4.0	5.5 3.6	6.3 4.0	6.5 3.8	RECORD	6.8 4.9	7.2 5.4	8.6 6.3	25	6.4 4.0	6.3 3.8	6.9 4.4	9.4	8.4 7.5	7.0 5.6	12.6	7.2 4.2
10	6.1 4.2	5.8 3.6	6.6 4.0	6.9 3.8		6.8 4.9	7.5 5.4	8.4 5.9	26	6.6 4.1	6.4 3.9	6.8 4.3	13.0	7.8 7.0	6.9 5.3	11.4	7.5 4.3
11	6.4 4.3	6.4 3.8	7.0 4.3	6.9 4.0		6.8 4.9	7.7 5.6	8.3 5.7	27	6.8 4.1	6.6 3.9	6.7 4.1	15.0 14.6	7.7 6.7	6.9 5.1	10.6	7.6 4.4
12	6.6 4.5	6.6 4.1	7.3 4.3	6.9 4.0		6.8 4.8	7.8 5.6	8.3 5.5	28	7.0 4.3	6.7 4.0	6.9 4.0	15.3 14.8	7.6 6.4	6.9 4.9	10.8 9.6	7.8 4.6
13	6.8 4.7	6.7 4.3	8.2 4.5	7.0 4.0		6.7 4.6	7.8 5.4	8.0 5.3	29	7.1 4.3	6.9 4.0	6.7 4.1	-	7.6 6.4	7.2 5.0	10.7 9.4	7.8 4.6
14	6.5 4.4	6.9 4.3	7.8 5.1	7.0 4.2		7.3 4.8	8.0 5.8	7.7 5.0	30	7.2 4.2	7.1 4.1	6.6 4.0	-	7.5 6.1	7.7 5.3	10.5 9.1	7.4 4.5
15	6.8 4.4	7.1 4.3	7.9 5.2	6.9 4.3	12.9 12.4	7.0 4.8	8.0 5.7	7.2 4.6	31	-	7.0 4.2	6.3 3.9	-	7.5 6.2	-	10.0 8.5	-
16	6.9 4.4	7.3 4.3	7.6 5.4	7.0 4.3	12.4 11.9	7.7 5.6	7.9 5.8	6.6 4.2									

Note: Single daily values indicate daily mean stages only.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
5-23-57	2:00 AM	14.7						

MEASUREMENTS

Date	OHT	Discharge	Meas. By	Date	OHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Sacramento River at Snodgrass Slough

Department of Water Resources station on left bank of Sacramento River, one-quarter mile upstream from the head of Snodgrass Slough (head of Slough cut off from Sacramento River by levee). Continuous water stage recorder and staff gage with zero set at elevation 0.00 feet, U.S.E.D. Datum, and minus 3.02 feet, U.S.G.S. Datum. Period of record, 1939 to date. Records published in reports of Department of Water Resources. Highest recorded stage, 20.47 feet, December 23, 1955. Formerly presented as station number 63 in Flood Flows and Stages series of reports.

TABLE 303

SACRAMENTO RIVER AT WALNUT GROVE
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	4.3	4.3	3.9	3.4	8.5	4.2	4.3	5.5	17	4.0	4.3	4.0	3.9	6.9	4.3	4.5	3.1
	1.2	0.6	0.6	0.4	7.3	1.8	0.9	3.0		0.6	0.7	1.2	1.1	5.4	1.3	1.5	0.3
2	4.0	4.3	3.7	3.1	8.3	3.8	4.5	5.2	18	4.3	4.2	3.8	3.9	6.7	4.3	4.2	3.2
	1.2	0.7	0.6	0.6	7.3	1.6	1.0	2.8		0.6	0.7	0.8	1.1	5.2	1.3	1.8	0.3
3	4.1	4.3	3.8	2.9	7.8	4.0	4.0	4.8	19	3.8	3.9	3.2	4.0	6.5	3.9	5.1	3.6
	1.0	0.8	0.6	0.5	6.8	1.5	0.7	2.6		0.7	0.7	0.7	0.9	4.8	1.3	2.9	0.6
4	4.2	4.5	3.4	2.9	7.6	4.1	4.1	4.6	20	4.1	3.8	4.0	3.6	6.3	3.7	6.6	3.7
	0.9	0.8	0.7	0.4	6.7	1.0	0.9	2.3		0.4	0.5	0.8	0.7	4.5	1.3	4.6	0.9
5	3.8	4.3	3.0	2.8	8.3	3.8	4.0	4.7	21	3.9	3.5	3.6	3.8	5.6	3.3	7.6	3.7
	0.9	1.0	0.5	0.3	6.7	0.9	1.0	2.2		0.5	0.6	1.0	0.8	3.8	1.2	6.4	0.7
6	3.5	3.6	2.8	3.0	9.5	4.1	4.5	4.7	22	3.7	3.0	3.7	3.7	4.8	3.2	7.6	3.6
	0.7	0.9	0.3	0.4	8.2	1.3	1.5	2.1		0.5	0.5	0.8	0.8	3.2	1.2	7.1	0.6
7	3.3	2.9	3.0	3.5	9.8	3.2	3.9	4.8	23	3.4	3.0	3.8	4.9	4.4	3.3	7.8	3.7
	0.6	0.7	0.2	0.8	8.6	0.6	1.1	2.3		0.5	0.3	0.9	1.7	2.9	1.1	7.1	0.5
8	2.8	2.6	3.4	3.7	9.2	3.7	3.9	5.1	24	3.1	3.2	3.9	4.9	4.2	3.3	7.8	4.1
	0.3	0.3	0.5	0.6	8.2	1.0	1.4	2.2		0.4	0.2	0.8	2.7	2.6	1.1	6.7	0.7
9	3.0	2.4	3.3	3.5	9.0	3.5	4.0	5.3	25	3.3	3.2	3.8	5.7	4.2	3.3	7.2	4.2
	0.2	0.0	0.6	0.4	8.1	0.9	1.4	2.1		0.4	0.3	0.7	3.2	2.4	1.0	5.7	0.7
10	2.9	2.8	3.5	3.8	8.4	3.5	4.2	5.1	26	3.5	3.4	3.8	7.4	3.9	3.4	6.6	4.5
	0.5	0.1	0.6	0.5	7.3	1.0	1.5	1.8		0.5	0.4	0.6	6.1	2.2	1.1	5.0	0.9
11	3.2	3.3	4.0	3.9	7.9	3.5	4.5	5.1	27	3.7	3.5	3.7	8.2	3.8	3.6	6.3	4.7
	0.6	0.4	0.8	0.5	6.9	1.0	1.5	1.7		0.6	0.4	0.5	7.1	2.0	1.0	4.6	1.0
12	3.5	3.5	4.2	3.9	7.8	3.6	4.5	5.1	28	3.9	3.7	3.8	8.5	3.9	3.7	6.3	4.8
	0.8	0.7	0.9	0.5	6.6	0.9	1.4	1.4		0.7	0.5	0.5	7.3	2.1	0.9	4.3	1.2
13	3.7	3.7	5.1	4.0	7.4	3.6	4.5	4.8	29	4.0	3.8	3.7		4.0	4.0	6.4	4.9
	1.0	0.7	1.4	0.7	6.3	0.7	1.4	1.2		0.6	0.6	0.5	-	2.2	1.1	4.1	1.2
14	3.3	3.9	4.7	4.0	7.3	4.2	4.7	4.4	30	4.2	4.1	3.5		4.0	4.5	6.2	4.5
	0.7	0.7	1.3	0.8	6.0	1.1	1.5	1.0		0.6	0.7	0.5	-	1.9	1.4	3.9	1.1
15	3.6	4.0	4.7	3.8	7.2	3.9	4.6	4.1	31		4.0	3.3		3.9		5.9	
	0.6	0.7	1.4	0.8	5.7	0.8	1.5	0.8		-	0.7	0.4	-	2.0	-	3.5	-
16	3.8	4.2	4.4	3.9	6.9	4.3	4.5	3.5									
	0.6	0.7	1.4	0.8	5.5	1.3	1.4	0.4									

CREST STAOES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAOES					

MEASUREMENTS

Date	OHT	Discharge	Meas. By	Date	OHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

Sacramento River at Walnut Grove

Department of Water Resources station on left bank of Sacramento River at Walnut Grove immediately upstream from head of Georgiana Slough. Period of record, 1929 to date. Continuous water stage recorder and staff gage set on U.S.E.D. Datum, February 19, 1929, to April 10, 1931; reset with zero at 0.33 foot, U.S.E.D. Datum, April 19, 1931, to September 6, 1940; and with zero at elevation 2.84 feet, U.S.E.D. Datum and 0.00 foot, U.S.C.S. Datum, September 6, 1940, to date. Records published in reports of Department of Water Resources. Highest recorded stage 12.4 feet (15.2 feet, U.S.E.D. Datum) February 8, 1940; December 24 and 25, 1955. Formerly presented as station number 64 in Flood Flows and Stages series of reports.

TABLE 304

SACRAMENTO RIVER NEAR RIO VISTA
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	NR	7.2	7.0	6.4	7.6	6.9	7.4	7.8	17	6.9	7.3	6.9	6.9	7.7	7.2	7.3	6.2
	NR	2.0	1.8	2.2	3.6	2.0	2.2	2.3		1.7	1.7	1.6	2.6	3.0	2.0	2.4	1.8
2	NR	7.2	*6.9	6.1	7.3	6.5	7.6	7.5	18	7.3	7.3	6.7	6.9	7.7	7.2	7.1	6.4
	1.8	2.0	*1.9	2.0	3.4	1.6	2.3	2.3		1.8	1.6	1.5	2.5	2.9	2.1	2.7	2.2
3	7.0	7.2	6.8	5.9	7.0	6.7	7.1	7.1	19	6.9	6.9	6.3	7.0	7.7		6.9	6.8
	1.8	2.1	2.0	2.0	3.3	1.8	1.9	2.2		1.8	1.5	1.7	2.6	2.9		2.6	2.7
4	7.1	7.4	6.4	5.9	7.1	6.8	7.1	7.1	20	7.0	6.8	7.0	6.9	7.8	N	6.5	7.0
	1.8	2.2	2.0	2.0	3.2	1.8	2.0	2.2		1.4	1.4	2.0	2.5	2.9	O	2.5	3.2
5	6.8	7.2	6.0	5.8	7.1	6.6	7.0	7.3	21	6.8	6.5	6.5	7.0	7.0	R	6.8	6.9
	1.8	2.2	1.8	2.0	3.2	1.8	2.4	2.7		1.5	1.6	2.3	2.5	2.3	E	3.0	3.0
															C		
															O		
6	6.5	6.5	5.8	6.0	7.1	6.9	7.3	7.5	22	6.6	5.9	6.6	6.8	6.1	R	6.9	7.0
	1.7	2.2	1.8	2.3	3.3	2.5	2.9	2.8		1.5	1.4	2.2	2.3	1.8	D	3.2	2.6
7	6.3	5.8	6.0	6.6	7.0	6.2	6.8	7.8	23	6.3	5.9	6.7	8.0	5.8		7.2	7.4
	1.7	1.9	2.0	2.6	3.2	1.6	2.5	2.9		1.7	1.4	2.1	3.0	1.9		3.4	2.4
8	5.8	5.5	6.6	6.8	7.2	6.6	7.0	7.8	24	6.0	6.2	6.8	7.7	5.8	6.2	7.4	7.4
	1.8	1.6	2.4	2.2	3.7	2.3	2.9	2.9		1.7	1.6	2.0	3.3	2.0	2.3	3.5	2.4
9	5.7	5.3	6.3	6.6	7.4	6.5	7.0	8.0	25	6.2	6.3	6.8	7.0	6.1	6.2	7.4	7.6
	1.8	1.3	2.3	1.8	3.5	1.1	2.9	2.7		1.8	1.8	1.9	2.6	2.2	2.5	2.9	2.4
10	5.8	5.7	6.5	6.9	7.0	6.4	7.2	7.8	26	*6.4	6.4	6.8	7.3	6.2	6.3	7.3	7.9
	1.9	1.7	2.1	1.8	3.0	2.3	2.8	2.4		*2.1	1.7	1.7	2.7	2.2	2.3	2.6	2.5
11	6.1	6.3	7.1	7.0	7.1	6.5	7.5	7.9	27	*6.7	6.6	6.7	7.3	6.2	6.5	7.5	8.1
	2.1	2.3	2.3	1.6	2.8	2.4	2.3	2.3		*2.1	1.7	1.7	2.8	2.2	2.3	2.6	2.5
12	6.3	6.5	7.4	7.0	7.7	6.8	7.5	7.8	28	*7.0	6.7	6.8	7.5	6.6	6.7	8.0	8.3
	2.4	2.3	2.2	1.7	2.8	2.3	2.5	2.3		*2.0	1.6	1.7	3.3	2.5	2.2	3.2	2.7
13	6.6	6.7	8.2	7.2	7.3	6.7	7.5	7.8	29	7.0	6.9	6.8		6.7	7.1	8.2	8.3
	2.4	2.0	2.5	1.9	2.4	2.0	2.4	2.2		2.0	1.6	1.8	-	2.8	2.4	2.8	2.7
14	6.3	6.9	7.6	7.2	7.4	7.5	7.6	7.5	30	7.1	7.2	6.6		6.7	7.6	8.1	8.0
	2.1	1.8	2.0	2.0	2.7	2.4	2.3	2.2		1.9	1.7	1.6	-	2.5	2.6	2.6	2.7
15	6.5	7.1	7.5	7.0	7.7	7.1	7.5	7.1	31		7.1	6.3		6.7		8.0	
	1.8	1.7	1.7	2.1	3.3	1.9	2.2	2.0		-	1.8	1.7	-	2.5	-	2.3	-
16	6.7	7.3	7.2	6.9	7.6	7.3	7.4	6.5									
	1.7	1.7	1.7	2.1	3.0	2.0	2.2	1.7									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Sacramento River near Rio Vista

U. S. Department of the Army station on the right bank of Sacramento River at U. S. Department of the Army dock one mile downstream from Rio Vista. Continuous water stage recorder and staff gage set with zero at elevation 0.00 feet, U.S.E.D. Datum and minus 3.06 feet, U.S.G.S. Datum. Period of record, 1925 to date. Records published in reports of Department of Water Resources. From 1906 to 1954 staff gage records are available from a Weather Bureau station at Rio Vista and published in reports of that agency. The zero of the staff gage was set at minus 0.79 feet, U.S.E.D. Datum. Maximum recorded stage, 18.0 feet (17.2 feet, U.S.E.D. Datum), March 24, 1907. Subsequent to the enlargement of the outlet of Sacramento River from Cache Slough to Collinsville, substantially completed in 1927, flood magnitudes were no longer indicated by stages at Rio Vista on account of the resulting effect of tidal stages. Highest recorded stage subsequent to the channel enlargement, 10.0 feet, U.S.E.D. Datum, December 26, 1955. Formerly presented as station number 65 in Flood Flows and Stages series of reports.

TABLE 305

SACRAMENTO RIVER AT COLLINSVILLE
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.6	6.8	NR	5.9	6.9	6.3	7.0	7.1	17	6.5		6.4	6.4	7.2	6.8	6.8	5.7
	1.9	1.8	NR	1.9	3.2	2.0	2.1	2.0		1.6		1.4	2.3	2.8	1.9	2.1	1.7
2	6.5	6.8	NR	5.7	6.6	6.0	7.2	6.8	18	6.8		6.2	6.4	7.2	6.8	6.7	5.9
	1.6	1.8	NR	1.8	3.0	1.6	2.1	2.0		1.7		1.4	2.3	2.6	1.9	2.5	2.0
3	6.5	6.8	6.3	5.5	6.4	6.2	6.6	6.4	19	6.5		5.9	6.5	7.2	6.2	6.4	6.2
	1.7	1.9	1.9	1.8	3.0	1.7	1.8	2.0		1.4		1.5	2.4	2.7	1.9	2.3	2.4
4	6.6	6.9	5.9	5.4	6.5	6.3	6.6	6.4	20	6.5		6.5	6.4	7.1	6.1	6.1	6.3
	1.7	2.1	1.7	1.9	2.9	1.7	1.9	1.9		1.4		1.9	2.3	2.6	1.9	2.3	2.7
5	6.3	6.7	5.5	5.4	6.6	6.1	6.5	6.6	21	6.3		6.1	6.6	6.5	5.6	6.3	6.4
	1.6	2.0	1.7	1.9	2.8	1.6	2.2	2.3		1.4		2.2	2.4	2.0	1.9	2.6	2.8
6	6.0	6.0	5.4	5.6	6.5	6.3	6.7	6.8	22	6.1		6.2	6.4	5.6	5.6	6.4	6.5
	1.6	2.0	1.7	2.2	2.8	2.2	2.5	2.4		1.4	NO	2.1	2.2	1.6	1.9	2.8	2.4
7	5.8	5.4	5.6	6.2	6.5	5.8	6.4	7.1	23	5.8		6.3	7.5	5.4	5.6	6.6	6.9
	1.6	1.8	1.8	2.4	2.8	1.5	2.3	2.7		1.5	RECORD	2.0	2.8	1.7	1.9	3.0	2.2
8	5.3	5.0	6.1	6.3	6.6	6.0	6.6	7.3	24	5.5		6.4	7.2	5.3	5.6	6.7	6.9
	1.6	1.4	2.3	2.0	3.2	2.0	2.7	2.6		1.6		1.9	3.1	1.8	2.1	3.2	2.2
9	5.2		5.9	6.2	6.8	5.9	6.8	7.3	25	5.7		6.4	6.5	5.6	5.7	6.7	7.0
	1.6		2.2	1.6	3.0	1.8	2.7	2.4		1.6		1.8	2.3	2.0	2.3	2.6	2.1
10	5.4		6.1	6.4	6.4	5.9	6.8	7.2	26	6.0		6.4	6.7	5.7	5.8	6.7	7.3
	1.8		2.0	1.6	2.5	1.9	2.7	2.1		1.9		1.7	2.4	2.0	2.2	2.4	2.2
11	5.6	NO	6.7	6.5	6.5	6.0	7.0	7.3	27	6.2		6.3	6.7	5.7	6.1	6.9	7.5
	1.9		2.2	1.5	2.3	2.1	2.6	2.1		2.2		1.6	2.5	2.0	2.1	2.3	2.2
12	5.8	RECORD	7.0	6.5	7.0	6.2	7.1	7.2	28	6.4		6.5	6.9	5.8	6.3	7.3	7.7
	2.2		2.1	1.5	2.4	2.1	2.4	2.1		2.0		1.6	3.0	2.3	2.1	2.6	2.4
13	6.1		7.6	6.7	6.7	6.3	7.1	7.2	29	6.5		6.3		6.1	6.6	7.5	7.7
	2.3		2.4	1.7	2.1	1.9	2.2	2.0		1.8		1.7	-	2.6	2.3	2.3	2.4
14	5.9		7.2	6.7	6.8	7.0	7.2	6.8	30	6.6		6.2		6.1	7.0	7.4	7.2
	1.9		1.9	1.9	2.4	2.1	2.2	1.9		1.8		1.5	-	2.3	2.4	2.2	2.2
15	6.0		7.0	6.5	7.1	6.6	7.0	6.6	31			5.9		6.2		7.3	
	1.7		1.6	1.9	3.0	1.7	2.0	1.8		-		1.6	-	2.3	-	2.0	-
16	6.2		6.8	6.4	7.0	6.7	6.9	6.0									
	1.6		1.4	2.3	2.8	1.9	2.0	1.6									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	OHT	Discharge	Meas. By	Date	OHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

Sacramento River at Collinsville

Department of Water Resources station on the right bank of Sacramento River, 500 feet upstream from the main street of Collinsville. Continuous water stage recorder and staff gage on intake structure of Fontana Farms canal with zero set at elevation 0.00 feet, U.S.E.D. Datum, minus 3.05 feet, U.S.O.S. Datum and 0.51 foot above mean lower low water at Presidio, San Francisco. Period of record, 1929 to date. Records published in reports of Department of Water Resources. Maximum historical high tide, 9.6 feet, U.S.E.D. Datum, observed January 3, 1909. Maximum recorded high tide, 9.2 feet, December 26, 1955. Formerly presented as station number 66 in Flood Flows and Stages series of reports.

TABLE 306

COLUSA BASIN DRAIN AT HIGHWAY 20
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.5	1.8	0.9	1.0	1.7	1.1	3.5	5.2	17	1.3	1.3	2.3	0.8	0.9	2.7	6.4	3.6
2	2.6	1.9	0.8	0.9	1.7	1.1	4.4	4.8	18	1.6	1.2	1.8	0.8	0.9	4.5	7.0	3.7
3	1.7	2.1	0.9	0.9	1.5	1.0	5.3	4.8	19	1.7	1.3	1.6	0.8	0.9	5.4	7.8	3.4
4	1.6	2.2	0.9	0.9	1.4	1.2	6.1	4.4	20	1.6	1.2	1.9	0.8	0.9	5.6	8.1	3.5
5	1.5	2.3	0.9	0.9	1.4	1.4	5.8	4.2	21	1.5	1.1	2.2	0.8	0.9	5.3	8.3	3.7
6	1.5	2.3	0.9	0.9	1.3	2.0	5.4	4.0	22	1.7	1.0	1.8	0.9	0.9	4.8	8.5	3.5
7	1.5	2.5	1.3	0.9	1.3	2.1	5.5	4.1	23	1.5	1.1	1.5	1.2	1.0	4.1	8.2	3.1
8	1.6	2.4	1.7	1.0	1.3	2.4	6.0	4.0	24	1.7	1.0	1.3	*2.1	0.9	3.5	7.6	3.2
9	1.6	2.2	1.8	1.0	1.3	2.2	7.3	4.0	25	1.4	1.1	1.2	5.3	0.9	3.5	6.5	3.2
10	1.4	2.0	1.7	0.9	1.2	2.4	7.9	4.2	26	1.5	1.0	1.2	4.7	0.9	3.6	6.2	3.4
11	1.2	2.0	1.6	0.9	1.1	2.4	8.1	4.3	27	1.5	1.0	1.2	2.8	0.9	3.2	5.9	3.3
12	1.2	2.5	1.7	0.9	1.1	2.1	8.2	4.3	28	1.8	1.0	1.1	2.0	0.9	2.8	5.2	3.3
13	1.2	2.7	*3.8	0.8	1.0	2.6	8.1	4.3	29	1.7	1.0	1.1	-	0.8	3.0	4.7	3.3
14	1.2	2.1	5.6	0.8	1.0	3.0	7.9	4.0	30	1.8	1.0	1.0	-	0.9	3.0	4.9	3.5
15	1.2	1.7	4.4	0.8	1.0	2.9	7.3	3.9	31	-	0.9	1.0	-	0.8	-	5.3	-
16	1.1	1.3	3.0	0.8	1.0	2.3	6.8	3.7									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
11-22-56	5:00 PM	1.8	2-25-57	5:00 PM	5.9	5-12-57	6:00 AM	8.2
11-28-56	4:30 PM	1.9	4-14-57	5:00 PM	3.2	5-22-57	8:00 AM	8.5
12-12-56	9:00 PM	2.9	4-20-57	11:00 AM	5.7			
1-14-57	3:00 PM	5.8	5-4-57	9:30 PM	6.2			

STATION DESCRIPTION

Colusa Basin Drain at Highway 20

Department of Water Resources station on upstream end of center pier on highway bridge about three miles west of Colusa. Continuous water stage recorder and staff gage at an altitude of about 40 feet. Period of record, 1941 to date. Stage and discharge measurements published in reports of Department of Water Resources. Highest recorded stage 14.2 feet, February 8, 1942. Formerly published as Colusa Trough at Tahoe-Ukish Highway, station number 67 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 307

COLUSA BASIN DRAIN AT KNIGHTS LANDING
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	22.4	20.6	19.9	20.0	27.1	23.5	24.8	26.2	17	20.3	20.5	22.0	19.8	25.9		24.0	24.2
2	22.9	20.6	19.9	20.0	26.6	23.3	24.8	25.6	18	20.5	20.4	21.4	19.8	25.8		23.8	24.3
3	22.3	20.7	19.9	20.0	26.5	22.8	24.9	25.4	19	20.7	20.3	20.9	19.7	25.8	NO	25.8	24.5
4	21.6	20.7	19.9	19.9	26.5	22.3	24.7	24.9	20	20.7	20.3	20.8	19.7	25.7	RECORD	27.8	24.6
5	21.2	20.9	19.8	19.9	26.5	21.8	24.8	24.6	21	20.7	20.3	20.8	19.7	25.7		*28.3	24.6
6	21.0	21.0	19.8	19.9	26.7	21.4	24.7	24.9	22	20.7	20.2	20.9	19.8	25.7		*28.4	24.6
7	20.8	21.0	19.9	19.8	27.3	21.3	24.5	24.4	23	20.7	20.1	20.9	19.8	25.6		28.4	24.6
8	20.8	21.1	20.3	19.9	27.2	21.2	24.5	24.3	24	20.6	20.2	20.6	21.1	25.6		28.4	24.5
9	20.8	21.0	20.6	20.0	26.9	21.2	24.8	24.3	25	20.6	20.2	20.4	23.1	25.6	22.9	28.3	24.4
10	20.8	21.0	20.7	20.0	26.6	21.1	24.8	24.5	26	20.5	20.1	20.5	26.1	25.6	23.5	28.1	24.5
11	20.8	20.9	20.6	19.9	26.4	21.6	24.7	24.7	27	20.5	20.1	20.2	27.6	25.4	23.8	27.9	24.5
12	20.7	20.9	20.6	19.9	26.3	22.8	24.5	24.7	28	20.5	20.0	20.2	27.7	24.7	23.9	27.7	24.5
13	20.5	21.0	20.8	19.8	26.2	23.5	24.6	24.6	29	20.6	20.0	20.2	-	23.9	24.2	27.6	24.4
14	20.5	21.1	21.8	19.9	26.0	24.2	24.5	24.4	30	20.7	20.0	20.1	-	23.4	24.9	27.2	24.5
15	20.3	21.0	23.5	19.7	26.0	24.6	24.2	24.2	31	-	20.0	20.1	-	23.4	-	26.6	-
16	20.4	20.8	23.0	19.8	25.9	NR	24.2	24.1									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-15-57	5:00 PM	23.7						
3-7-57	11:40 AM	27.3						
5-23-57	9:00 AM	28.5						
6-6-57	8:50 AM	25.2						

STATION DESCRIPTION

Colusa Basin Drain at Knights Landing

Department of Water Resources station on the left abutment of Knights Landing Ridge Cut Outfall Gates structure one-quarter mile west of Sacramento River immediately upstream from Knights Landing. Continuous water stage recorder and staff gage aet on U.S.E.D. Datum. Department of Water Resources maintains an automatic short wave radio water stage broadcaster at this station. Station rated for flows through Knights Landing Ridge Cut by means of measurements and gage heights at Station No. 70 to allow for effect of backwater from Yolo Bypass. Period of record, 1940 to date. Records published in reports of Department of Water Resources. Maximum recorded stage and simultaneous discharge through Knights Landing Ridge Cut, 36.8 feet and 13,600 second-feet, February 10, 1942. Formerly published as Colusa Basin Drain at Knights Landing Outfall Gates, station number 68 in Flood Flows and Stages series of reports.
Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 308

CACHE CREEK AT YOLO
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June
1					5.3	3.2	4.0	3.5	17			3.0		4.7	NF	3.8	
2					4.9	3.0	3.8	2.8	18			2.8		4.6	NF	3.8	
3					4.5	3.0	3.8	2.5	19			2.6		4.4	*3.0	4.4	
4					4.3	2.8	3.7		20			NF		4.2	3.0	4.9	
5					4.5	2.7	3.6		21			3.7		4.0	2.8	4.8	
6					5.2	*2.5	3.6		22			3.8		3.9	2.6	4.7	
7					5.1		3.6		23			3.2	2.8	3.8	2.8	4.5	
8					4.7		3.6		24			2.9	10.0	3.6	4.1	4.4	
9					4.5		3.7		25			2.7	13.8	3.6	4.3	4.3	
10					4.3		3.8		26			2.5	7.6	3.5	4.4	4.2	
11					4.1		3.9		27			2.3	6.9	3.4	4.4	4.1	
12					4.0		3.9		28			2.2	6.0	3.3	4.2	3.9	
13					4.6		3.9		29			2.1	-	3.3	4.1	3.9	
14			3.4		4.4		3.8		30			NF	-	3.2	4.0	3.8	
15			3.5		4.3		3.8		31			NF	-	3.3	-	3.8	
16			3.2		4.6		3.8										

NO FLOW

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	4:00 PM	4.0						
1-21-57	10:30 AM	4.4						
2-25-57	2:00 AM	16.8						
5-19-57	10:00 PM	4.9						

STATION DESCRIPTION

Cache Creek at Yolo

U. S. Geological Survey station on left bank of Cache Creek about one-half mile southwest from Yolo on abutment of an old county bridge about 800 feet upstream from bridge over Cache Creek on Highway 99W. Continuous water stage recorder and staff gage set with zero at 59.1 feet, U.S.E.D. Datum, prior to June 11, 1954, and elevation 55.1 feet, U.S.E.D. Datum, subsequent to that date. Period of record, 1930 to date. Discharge published in U.S.G.S. Water Supply Papers; flood season stages in reports of Department of Water Resources. Maximum recorded stage 30.00 feet, February 23, 1955, corresponding to a discharge of 27,400 second-feet. Maximum recorded discharge, 28,700 second-feet (plus an estimated overflow on right bank of 10,000 second-feet), February 28, 1940. Maximum observed stage, 29.8 feet (88.9 feet, U.S.E.D. Datum), February 2, 1915. Formerly presented as station number 69 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 309

YOLO BYPASS NEAR WOODLAND
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Peb.	Mar.	Apr.	May	June
1					24.9			13.8	17					14.9		NR	
2					23.9			13.4	18				NO	14.8		NR	
3					22.2				19					14.6		NR	
4					21.1				20				RE	14.3		NR	
5					22.8				21				COR	14.1		15.7	
6	NO	NO	ND	NO	24.5	NO	NO		22	NO	ND	NO	D	14.1	NO	20.5	NO
7					25.3				23					14.0		21.6	
8	RE	RE	RE	RE	25.2	RE	RE	NO	24	RE	RE	RE	11.7	14.1	RE	20.5	RE
9	CO	CO	CO	CO	24.9	CD	CO	RE	25	CO	CO	CO	19.6	14.1	CO	19.1	CO
10	RD	RD	RD	RD	24.5	RD	RD	COR	26	RD	RD	RD	23.4	13.9	RD	18.2	RD
11					23.5			D	27				25.6	13.5		17.6	
12					21.5				28				25.6	12.9		17.2	
13					19.0				29				-	12.2		16.8	
14					16.7				30				-	12.3		16.2	
15					15.8				31	-			-	12.5	-	15.0	-
16					15.1												

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-28-57	2:00 AM	25.7						
3-7-57	10:00 AM	25.4						
5-23-57	10:00 AM	21.7						

STATION DESCRIPTION

Yolo Bypass near Woodland

U. S. Geological Survey and Department of Water Resources station on east levee of Yolo Bypass immediately upstream from Sacramento Northern Railway. Continuous water stage recorder and staff gage with zero set at 0.00 feet, U.S.E.D. Datum, and minus 3.07 feet, U.S.G.S. Datum. Period of continuous record, 1941 to date. Staff gage readings during flood stages of the season of 1940-1941. Records published in reports of Department of Water Resources. Maximum recorded stage and discharge, 32.0 feet and 272,000 second-feet, February 8, 1942. Formerly published as Yolo Bypass at Elkhorn, station number 70 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 310

YOLO BYPASS AT SACRAMENTO BYPASS
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1					18.5	9.9		12.5	17					14.2		9.7	
2					18.0	9.7		11.2	18					14.2		9.7	
3					17.7			10.0	19				NO	13.9		10.0	
4					17.4				20					13.3		11.5	
5	NO				17.4				21				FLOW	12.9		16.4	
6	RECORD	NO	NO	NO	18.0		NO		22					12.6		18.0	
7					18.6				23	NO	NO	NO		12.2	NO	17.8	NO
8		FLOW	FLOW	FLOW	18.6	NO	FLOW	NO	24	FLOW	FLOW	FLOW		12.2	FLOW	17.5	FLOW
9					18.4				25				15.9	11.9		16.9	
10					18.1	FLOW		FLOW	26				17.7	11.7		16.5	
11					17.8				27				18.5	11.4		16.2	
12	NO				17.5				28				18.8	11.0		15.9	
13					16.9				29				-	10.4		15.6	
14	FLOW				15.9				30				-	10.2		15.1	
15					15.2				31	-			-	10.0	-	13.9	-
16					14.6												

CREST STAOES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-28-57	12:00 Noon	18.9						
5-22-57	12:00 Noon	18.1						

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
3-14-57	15.89	1240	DWR				

STATION DESCRIPTION

Yolo Bypass at Sacramento Bypass

Department of Water Resources station at the intersection of the east levee of Yolo Bypass and the north levee of Sacramento Bypass. Continuous water stage recorder and staff gage with zero set at elevation 0.00 feet, U.S.E.D. Datum, and minus 3.07 feet, U.S.C.S. Datum. Period of record 1925 to date. Records published in reports of Department of Water Resources. Maximum recorded stage, 26.89 feet, December 24, 1955. Formerly presented as station number 71 in Flood Flows and Stages series of reports.

TABLE 311

PUTAH CREEK NEAR WINTERS
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	4.1	4.4	4.4	4.6	4.6	4.6	4.6	4.6	17	4.6	4.4	4.8	4.1	4.6	4.6	4.6	4.6
2	4.4	4.4	4.4	4.6	4.5	4.6	4.6	4.5	18	4.6	4.4	4.8	4.5	4.6	4.6	4.6	4.5
3	4.6	4.4	4.4	4.6	4.5	4.6	4.6	4.6	19	4.6	4.4	4.7	4.5	4.6	4.6	4.7	4.6
4	4.6	4.4	4.4	4.6	4.6	4.6	4.7	4.6	20	4.6	4.4	4.7	4.5	4.6	4.6	4.7	4.6
5	4.7	4.4	4.4	4.6	4.6	4.6	4.7	4.6	21	4.5	4.4	4.7	4.6	4.6	4.6	4.7	4.6
6	4.6	4.4	4.4	4.6	4.6	4.6	4.6	4.6	22	4.5	4.4	4.7	4.4	4.6	4.6	4.6	4.6
7	4.6	4.4	4.4	4.6	4.6	4.6	4.6	4.6	23	4.5	4.4	4.7	4.9	4.6	4.6	4.6	4.5
8	4.6	4.4	4.4	4.6	4.6	4.6	4.6	4.6	24	4.5	4.4	4.6	5.5	4.6	4.6	4.6	4.6
9	4.6	4.4	4.4	4.6	4.6	4.7	4.6	4.6	25	4.5	4.4	4.7	4.6	4.6	4.6	4.6	4.7
10	4.6	4.4	4.4	4.6	4.6	4.6	4.6	4.6	26	4.5	4.4	4.7	4.6	4.6	4.6	4.6	4.6
11	4.6	4.4	4.4	4.5	4.6	4.6	4.6	4.6	27	4.4	4.4	4.7	4.6	4.6	4.6	4.6	4.6
12	4.6	4.4	4.5	4.5	4.6	4.6	4.6	4.6	28	4.4	4.4	4.7	4.6	4.6	4.6	4.6	4.6
13	4.6	4.4	4.5	4.7	4.6	4.6	4.6	4.6	29	4.4	4.4	4.7	-	4.6	4.6	4.6	4.6
14	4.6	4.4	4.6	4.6	4.6	4.6	4.6	4.6	30	4.4	4.4	4.7	-	4.6	4.6	4.6	4.6
15	4.6	4.4	4.5	4.6	4.6	4.6	4.6	4.6	31	-	4.4	4.6	-	4.6	-	4.6	-
16	4.5	4.4	4.6	4.6	4.7	4.6	4.6	4.6									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-24-57	8:00 AM	6.7						
6-24-57	12:00 Noon	4.7						

STATION DESCRIPTION

Putah Creek near Winters

U. S. Geological Survey station on left bank of Putah Creek, six miles west of Winters on Monticello Road. Continuous water stage recorder and staff gage with zero set at elevation 160.75 feet, U.S.O.S. Datum. Period of record 1930 to date. Prior to March 1, 1940, zero of recorder and staff gage was set at elevation 161.6 feet, U.S.O.S. Datum. Discharges published in U.S.O.S. Water Supply Papers. Maximum recorded stage and discharge, 30.5 feet present datum (192.1 feet, U.S.O.S. Datum) and 81,000 second-feet, February 27, 1940. Formerly presented as station number 72 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 312

YOLO BYPASS AT LISBON
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	7.3 2.8	7.1 2.8	6.8 3.8	6.3 3.6	15.2	7.1 4.7	7.3 4.3	8.3 6.3	17	6.8 2.5	7.1 4.0	6.9 4.6	6.8 4.4	9.2 8.5	7.2 4.7	7.6 5.0	6.2 3.4
2	7.0 2.6	7.0 2.9	6.6 3.8	6.1 3.8	14.5	6.8 4.3	7.4 4.3	8.0 5.8	18	7.0 2.6	7.0 3.9	6.6 4.3	6.8 4.2	8.6 7.8	7.3 4.6	7.4 5.2	6.3 3.5
3	7.1 2.4	7.1 2.9	6.7 3.8	6.0 3.6	13.5	6.7 4.3	7.0 4.0	7.6 5.5	19	6.5 2.6	6.8 3.9	6.3 4.1	6.9 4.2	8.4 7.3	7.0 4.6	7.7 5.8	6.3 3.8
4	7.2 2.4	7.2 3.5	6.3 3.9	5.9 3.5	12.8	6.9 4.3	7.1 4.2	7.4 5.1	20	6.8 2.4	6.7 3.7	6.9 4.2	6.6 4.0	8.4 7.1	6.8 4.5	8.0 7.2	6.6 4.0
5	6.9 2.5	7.1 4.2	6.0 3.6	5.9 3.3	12.3	6.7 4.2	7.0 4.4	7.4 5.2	21	6.7 2.4	6.3 3.8	6.5 4.3	6.8 4.2	7.7 6.3	6.3 4.3	9.0	6.7 3.8
6	6.6 2.4	6.5 4.2	5.8 3.5	6.0 3.4	12.3	7.1 4.4	7.5 4.8	7.5 4.9	22	6.5 2.4	6.0 3.6	6.5 3.9	6.7 4.1	7.0 5.7	6.2 4.3	9.6	6.6 3.8
7	6.4 *2.3	5.9 3.8	6.0 3.4	6.5 3.8	14.1	6.2 3.8	6.9 4.3	7.6 5.3	23	6.2 2.4	6.0 3.4	6.7 4.0	7.9 5.1	6.7 5.4	6.4 4.3	10.0	6.6 3.7
8	6.0 *2.3	5.6 3.3	6.5 3.7	6.7 3.8	15.0	6.7 4.2	6.8 4.6	7.8 5.2	24	6.0 2.4	6.1 3.2	6.8 4.0	8.0 6.0	6.6 5.3	6.3 4.2	10.4	7.0 3.8
9	5.9 *2.3	5.4 3.0	6.2 3.8	6.4 3.5	14.8	6.6 4.1	7.0 4.6	8.0 5.2	25	6.1 2.4	6.2 3.3	6.8 3.9	8.4 6.9	6.8 5.3	6.3 4.1	10.5	7.1 4.0
10	6.0 *2.3	5.8 3.0	6.5 3.8	6.8 3.7	14.4	6.5 4.2	7.2 4.8	7.8 4.8	26	6.3 2.5	6.3 3.5	6.7 3.7	9.4 8.8	6.6 5.1	6.4 4.2	10.4	7.4 4.1
11	6.3 *2.4	6.2 3.4	6.9 4.2	6.8 3.7	13.9	6.6 4.2	7.4 4.8	7.9 4.8	27	6.5 2.7	6.4 3.6	6.6 3.7	11.3	6.8 5.0	6.6 4.1	10.0	7.5 4.3
12	6.5 2.7	6.4 3.7	7.2 4.5	6.8 3.7	13.3	6.7 4.1	7.5 4.8	7.8 4.8	28	6.7 2.8	6.6 3.6	6.8 3.7	14.9	6.8 5.0	6.7 4.1	9.5	7.7 4.5
13	6.5 3.1	6.6 3.8	7.9 4.5	6.9 3.7	12.3	6.6 3.9	7.5 4.9	7.7 4.5	29	6.8 2.7	6.7 3.6	6.6 3.7	-	7.0 5.1	7.0 4.4	9.3 8.0	7.8 4.6
14	6.1 2.7	6.7 3.8	7.5 4.9	6.8 3.9	11.6	7.1 4.2	7.7 4.9	7.4 4.3	30	6.9 2.7	6.9 3.7	6.5 3.7	-	6.9 4.9	7.4 4.7	9.0 8.0	7.4 4.5
15	6.4 2.6	6.9 3.8	7.4 4.6	6.8 4.0	10.8	6.8 4.0	7.6 4.8	7.1 3.9	31	-	6.8 3.9	6.3 3.6	-	6.9 5.0	-	8.7 7.1	-
16	6.5 2.5	7.1 3.9	7.3 4.7	6.8 4.0	9.9	7.2 4.6	7.5 4.9	6.5 3.5									

* Estimated
Note: Single daily values indicate daily mean stage only.

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
3-1-57	1:00 AM	15.3						
3-8-57	3:00 PM	15.1						
5-24-57	4:00 PM	10.6						

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Yolo Bypass at Lisbon

Department of Water Resources station on east levee of Yolo Bypass 0.3 mile downstream from easterly end of Sacramento Northern Railway trestle over Yolo Bypass. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Period of record 1914 to 1917, 1918 to 1919 and 1920 to date. Records published in reports of Department of Water Resources. Maximum recorded stage and discharge, 23.40 feet and 304,800 second-feet, December 24, 1955. Formerly presented as station number 73 in Flood Flows and Stages series of reports.

TABLE 313

YOLO BYPASS AT LIBERTY ISLAND
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	7.0 1.9	7.1 1.7	6.8 1.5	6.3 1.5	10.9 8.9	6.7 1.7	7.2 1.8	7.7 1.9	17	7.8 1.6	7.2 1.3	NR NR	6.8 2.2	7.4 3.2	7.1 1.8	7.3 2.0	6.0 1.7
2	6.7 1.7	7.1 1.7	6.6 1.5	5.9 1.9	10.5 8.0	6.2 1.5	7.4 1.8	7.4 1.9	18	7.1 1.6	7.2 1.3	NR NR	6.8 2.1	7.4 2.9	7.1 1.7	7.1 2.4	6.3 1.8
3	6.8 1.8	7.1 1.8	6.7 1.5	5.8 1.6	9.3 7.0	6.5 1.5	6.9 1.6	7.0 1.8	19	6.6 1.6	6.8 1.2	6.2 1.4	6.9 2.2	7.4 2.8	6.6 1.8	6.8 2.3	6.7 2.4
4	6.9 1.8	7.4 1.8	6.2 1.7	5.8 1.6	8.2 5.0	6.7 1.6	6.9 1.6	7.0 1.8	20	6.9 1.4	6.7 1.3	7.0 1.8	6.9 2.0	7.4 2.9	6.4 1.7	6.4 2.2	6.8 2.9
5	6.6 1.8	7.1 1.8	5.8 1.5	5.8 1.7	7.6 4.3	6.5 1.6	6.8 2.0	7.2 2.3	21	6.7 1.4	6.3 1.3	6.4 2.0	7.0 2.1	6.8 2.1	5.9 1.7	6.8 2.8	6.8 2.6
6	6.3 1.6	6.4 1.8	5.7 1.5	6.0 1.9	7.7 4.6	6.8 1.9	7.3 2.5	7.4 2.5	22	6.5 1.4	5.8 1.3	6.6 1.9	6.7 1.9	5.9 1.7	5.8 1.8	6.8 3.0	6.8 2.0
7	6.1 1.6	5.7 1.6	5.9 1.7	6.5 2.2	9.5 5.7	5.8 1.5	6.8 2.0	7.7 2.6	23	6.2 1.5	5.8 1.2	6.6 1.8	7.9 2.7	5.7 1.7	6.0 1.8	7.1 3.2	6.8 1.9
8	5.6 1.6	5.4 1.3	6.5 2.2	6.6 1.8	10.6 9.4	6.5 1.9	6.9 2.5	7.7 2.5	24	5.9 1.5	6.1 1.3	6.8 1.7	7.7 3.0	5.7 1.8	6.0 1.9	7.1 3.3	7.3 1.9
9	5.6 1.6	5.2 1.2	*6.6 2.2	6.4 1.5	10.8 9.8	6.3 1.7	6.9 2.5	8.0 2.4	25	6.1 1.5	6.2 1.5	6.8 1.6	7.0 2.3	6.0 1.9	6.0 2.0	7.2 2.6	7.4 1.9
10	5.7 1.7	5.6 1.4	6.6 2.0	6.8 1.5	10.3 8.4	6.3 1.9	7.2 2.4	7.7 1.9	26	6.3 1.8	6.3 1.3	6.6 1.5	7.2 2.4	5.9 1.9	6.2 1.9	7.2 2.3	7.8 2.0
11	6.0 1.9	6.2 1.9	7.2 2.3	6.8 1.5	9.3 6.5	6.5 1.9	7.4 2.2	7.8 1.9	27	6.5 2.0	6.5 1.3	6.6 1.5	7.2 2.6	6.0 1.8	6.4 1.8	7.4 2.2	7.9 2.1
12	6.2 2.2	6.4 1.9	7.5 2.2	6.9 1.5	8.8 5.6	6.6 1.9	7.5 2.1	7.8 2.0	28	6.8 1.9	6.6 1.3	6.8 1.5	8.6 5.2	6.2 2.2	6.6 1.8	8.0 2.9	8.1 2.3
13	6.5 2.5	6.6 1.7	8.1 2.5	7.1 1.5	7.8 3.7	6.6 1.6	7.5 2.1	7.7 1.8	29	6.8 1.7	6.8 1.4	6.7 1.5	-	6.5 2.4	7.0 1.9	8.1 2.6	8.2 2.3
14	6.1 2.2	6.8 1.4	7.8 2.0	7.0 1.6	7.4 3.3	7.6 1.9	7.6 1.9	7.3 1.7	30	7.0 1.7	7.0 1.5	6.5 1.4	-	6.5 2.0	7.4 2.2	8.0 2.2	7.8 2.3
15	6.4 1.7	6.9 1.3	7.5 1.6	6.8 1.7	7.6 3.6	7.0 1.6	7.4 1.8	7.0 1.7	31	-	6.9 1.4	6.3 1.5	-	6.5 2.2	-	7.9 1.9	-
16	7.6 1.6	7.2 1.3	NR NR	6.8 2.2	7.4 3.2	7.2 1.7	7.3 1.8	6.3 1.7									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	OHT	Discharge	Meas. By	Date	OHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Yolo Bypass at Liberty Island

Department of Water Resources station on east levee of Liberty Island about three miles north of Prospect Slough. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Period of record 1918 to date. Records published in reports of Department of Water Resources. Maximum recorded stage, with all tidal reclamations flooded, 18.4 feet, February 8, 1942. Formerly presented as station number 74 in Flood Flows and Stages series of reports.

TABLE 314

YOLO BYPASS AT LINDSAY SLOUGH
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	7.2 1.8	7.4 1.8	7.0 1.7	6.5 2.0	7.8 3.8	6.9 1.7	7.5 2.1	7.8 2.2	17	7.1 1.6	7.4 1.4	7.0 1.4	7.0 2.4	7.6 3.0	7.3 2.0	7.5 2.2	6.2 1.6
2	7.0 1.6	7.3 1.8	6.8 1.7	6.1 1.8	7.5 3.6	6.5 1.3	7.7 2.1	7.6 2.1	18	7.4 1.5	7.4 1.4	6.8 1.4	7.0 2.5	7.7 2.8	7.3 1.9	7.3 2.6	6.5 2.0
3	7.1 1.7	7.4 1.9	6.9 1.7	6.0 1.9	7.2 3.4	6.7 1.6	7.2 1.7	7.1 2.0	19	6.9 1.3	7.0 1.4	6.4 1.5	7.1 2.4	7.7 2.8	6.8 2.0	7.1 2.6	6.9 2.5
4	7.2 1.7	7.6 2.0	6.4 1.9	5.9 1.9	7.2 3.3	6.9 1.6	7.2 1.8	7.2 2.0	20	7.1 1.3	6.9 1.2	7.1 1.9	7.0 2.3	7.8 2.8	6.6 2.0	6.7 2.5	7.0 3.1
5	6.8 1.7	7.3 2.1	6.0 1.7	6.0 1.9	7.2 3.2	6.7 1.7	7.1 2.3	7.4 2.5	21	6.9 1.3	6.5 1.4	6.6 2.2	7.2 2.3	7.0 2.2	6.1 1.9	7.0 3.0	7.0 2.8
6	6.5 1.5	6.6 2.1	5.9 1.7	6.1 2.2	7.2 3.4	7.0 2.2	7.5 2.7	7.6 2.7	22	6.7 1.4	6.0 1.3	6.7 2.1	6.9 2.2	6.1 1.7	6.0 2.0	7.0 3.3	7.0 2.3
7	6.3 1.6	5.9 1.8	6.1 1.8	6.7 2.5	7.2 3.4	6.1 1.4	7.0 2.3	7.9 2.8	23	6.4 1.5	6.0 1.2	6.8 2.0	8.0 2.9	5.8 1.8	6.2 2.1	7.3 3.4	7.5 2.2
8	5.8 1.7	5.6 1.5	6.7 2.3	6.8 2.1	7.4 4.1	6.6 2.1	7.1 2.7	7.9 2.7	24	6.1 1.6	6.3 1.4	6.9 1.9	7.9 3.2	5.8 1.9	6.2 2.2	7.3 3.5	7.6 2.2
9	5.8 1.7	5.4 1.3	6.4 2.2	6.6 1.6	7.6 3.9	6.5 1.9	7.1 2.8	8.1 2.6	25	6.3 1.7	6.4 1.7	6.9 1.8	7.2 2.5	6.2 2.1	6.2 2.4	7.4 2.8	7.6 2.2
10	5.9 1.8	5.9 1.6	6.7 2.0	7.0 1.7	7.3 3.3	6.5 2.1	7.4 2.7	7.9 2.2	26	6.6 1.9	6.5 1.5	6.8 1.6	7.4 2.7	6.2 2.1	6.4 2.2	7.4 2.5	8.0 2.3
11	6.2 2.0	6.5 2.2	7.2 2.3	7.0 1.5	7.3 2.9	6.6 2.2	7.6 2.5	8.0 2.1	27	6.8 2.2	6.7 1.5	6.8 1.6	7.4 2.8	6.2 2.1	6.6 2.1	7.6 2.4	NO
12	6.4 2.3	6.6 2.2	7.5 2.2	7.1 1.5	7.8 2.9	6.8 2.2	7.7 2.3	7.9 2.2	28	7.0 2.0	6.8 1.5	7.0 1.6	7.6 3.5	6.4 2.4	6.8 2.0	8.1 3.0	RECORD
13	6.7 2.3	6.8 1.9	8.2 2.5	7.3 1.7	7.4 2.5	6.8 1.8	7.7 2.3	7.9 2.0	29	7.1 1.8	7.0 1.6	6.9 1.7	-	6.6 2.6	7.2 2.2	8.3 2.7	
14	6.4 1.9	7.0 1.7	7.7 1.9	7.2 1.9	7.5 2.7	7.7 2.2	7.8 2.2	7.5 2.0	30	7.2 1.8	7.2 1.7	6.7 1.5	-	6.7 2.2	7.7 2.4	8.2 2.5	
15	6.6 2.6	7.2 1.5	7.6 1.6	7.1 1.9	7.7 3.3	7.2 1.7	7.7 2.1	7.2 1.8	31	-	7.1 1.6	6.5 1.6	-	6.7 2.4	-	8.1 2.1	-
16	6.8 1.6	7.4 1.6	7.4 1.4	7.0 2.4	7.6 3.0	7.4 1.9	7.5 2.1	6.5 1.5									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
NO CREST STAGES								

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Yolo Bypass at Lindsay Slough

Department of Water Resources station on the right bank of Lindsay Slough at California Packing Corporation headquarters, 1.1 miles upstream from Cache Slough. Continuous water stage recorder and staff gage with zero set at elevation 0.0 feet, U.S.E.D. Datum and minus 2.92 feet, U.S.G.S. Datum. Miscellaneous staff gage readings in this approximate vicinity since 1907. Period of continuous record, 1941 to date. Records published in reports of Department of Water Resources. Maximum stage and discharge, estimated from preserved high water mark near Maine Prairie tied in to present U.S.E.D. Datum, 20.7 feet and 390,000 second-feet, March 23, 1907, at which time Ryer Island and Egbert Tract were submerged. If only Egbert Tract had been submerged, it is estimated that the stage at Lindsay Slough would have been 21.8 feet.* Subsequent to the enlargement of Sacramento River from Cache Slough to Collinsville, substantially completed in 1927, stages at Lindsay Slough were greatly reduced. Under existing conditions it is estimated that a flood of the magnitude of that of March 1907 would result in a stage and discharge of 16.7 feet and 452,000 second-feet in Yolo Bypass at Lindsay Slough with Egbert Tract submerged. Maximum stage subsequent to installation of recorder, 16.1 feet immediately prior to, and 13.7 feet following the inundation of Egbert Tract, February 8, 1942; estimated discharge, 270,000 second-feet. Formerly presented as station number 75 in Flood Flows and Stages series of reports.

* Report of Division of Water Resources entitled, "Magnitude, Stage and Frequency of Flood Flows of Sacramento River near Rio Vista - December 1942".

TABLE 315

COSUMNES RIVER AT MICHIGAN DAR
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.1	2.5	2.6	2.8	4.6	4.2	3.8	4.0	17	2.6	2.7	2.9	3.4	4.[illegible]	4.[illegible]	[illegible].6	3.[illegible]
2	2.9	2.5	2.6	2.9	4.4	4.1	3.8	3.9	18	2.6	2.6	2.8	3.4	4.4	4.4	4.1	3.1
3	2.8	2.5	2.6	2.9	4.4	4.0	3.9	3.9	19	2.6	[illegible].6	2.8	3.3	4.4	4.3	5.7	3.0
4	2.7	2.5	2.6	2.9	5.0	4.0	3.8	3.8	20	2.5	[illegible].6	3.3	3.[illegible]	4.3	4.1	[illegible].4	3.[illegible]
5	2.7	2.8	2.6	2.8	7.2	4.0	3.8	3.8	21	2.5	[illegible].6	3.6	3.4	4.2	4.[illegible]	[illegible].3	3.[illegible]
6	2.6	3.2	2.6	2.8	6.4	4.0	3.8	3.7	22	2.5	2.6	3.2	3.8	4.2	4.[illegible]	5.[illegible]	[illegible].9
7	2.6	2.9	2.6	2.8	5.6	4.0	3.8	3.7	23	2.5	2.6	3.0	4.3	4.1	3.9	4.[illegible]	2.9
8	2.6	2.8	2.6	3.0	5.2	3.9	3.8	3.[illegible]	24	2.5	2.6	3.0	5.1	4.0	[illegible].9	4.7	2.9
9	2.6	2.6	2.7	3.5	5.3	3.9	3.8	3.6	25	2.5	[illegible].6	2.9	6.0	4.0	3.8	4.[illegible]	2.8
10	2.6	2.6	2.7	3.3	5.1	3.8	3.8	3.6	26	2.5	2.6	3.0	5.4	4.[illegible]	[illegible].8	4.4	2.8
11	2.6	2.7	2.6	3.3	4.8	3.8	3.8	3.5	27	2.5	2.6	3.0	5.[illegible]	[illegible].9	3.8	4.4	2.8
12	2.6	2.7	2.7	3.5	5.0	3.8	3.7	3.4	28	2.5	2.6	2.8	4.8	[illegible].9	3.8	4.3	2.8
13	2.6	2.7	3.0	3.4	4.9	3.8	3.7	3.4	29	2.5	2.6	2.9	-	4.0	[illegible].8	4.2	2.7
14	2.6	2.7	3.6	3.5	4.7	4.2	3.7	3.3	30	2.5	2.6	2.8	-	4.2	3.8	4.1	2.7
15	2.6	2.7	3.2	3.4	4.6	4.2	3.7	3.2	31	-	2.[illegible]	2.8	-	4.1	-	4.1	-
16	2.6	2.7	3.0	3.4	4.8	4.0	3.6	3.2									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-25-57	7:00 AM	7.2						
3-6-57	6:30 PM	7.4						
5-19-57	5:00 AM	6.1						

STATION DESCRIPTION

Cosumnes River at Michigan Bar

U. S. Geological Survey station on downstream side of midstream pier of county road bridge over Cosumnes River about three miles upstream from State Highway No. 16 bridge. Continuous water stage recorder and staff gage at an altitude of about 190 feet. Rating curve extended for flows in excess of 19,000 second-feet by logarithmic plotting. Period of record, 1907 to date. Staff gage readings only, prior to 1929. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge, 14.59 feet and 42,000 second-feet, December 23, 1955. Formerly presented as station number 76 in Flood Flows and Stages series of reports.
Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 316

COSUMNES RIVER AT McCONNELL
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	31.8	30.9	30.9	31.3	35.3	33.4	32.7	33.3	17	30.9	31.1	31.5	32.0	34.8	33.1	32.4	31.9
2	31.6	30.9	30.9	31.3	34.6	33.4	32.7	33.2	18	30.9	31.0	31.4	32.1	34.4	33.6	32.5	31.8
3	31.3	30.8	30.9	31.3	34.1	33.2	33.0	33.0	19	30.9	31.0	31.3	32.0	34.1	33.9	35.8	31.7
4	31.2	30.9	30.9	31.4	35.0	33.1	32.8	32.9	20	30.9	31.0	31.4	31.9	33.9	33.6	36.8	31.7
5	31.1	30.9	30.9	31.3	39.4	33.1	32.7	32.8	21	30.9	31.0	32.3	31.9	33.7	33.3	36.5	31.6
6	31.0	31.4	30.9	31.2	41.6	33.1	32.7	32.7	22	30.9	31.0	32.2	32.4	33.6	33.1	36.0	31.6
7	31.0	31.7	30.9	31.2	38.7	33.1	32.7	32.6	23	30.9	31.0	31.8	32.8	33.4	33.0	35.4	31.6
8	31.0	31.4	31.0	31.2	36.6	33.0	32.8	32.5	24	30.9	30.9	31.6	34.9	33.3	32.9	35.0	31.6
9	31.0	31.2	31.0	31.7	36.2	32.9	32.8	32.4	25	30.9	31.0	31.4	38.4	33.2	32.8	34.6	31.5
10	30.9	31.1	31.1	32.1	36.4	32.8	32.8	32.4	26	30.9	31.0	31.5	37.5	33.1	32.8	34.2	31.4
11	30.9	31.0	31.0	31.8	35.5	32.8	32.7	32.6	27	30.9	30.9	31.6	36.9	33.0	32.7	34.1	31.2
12	30.9	31.1	30.9	32.1	35.2	32.8	32.6	32.4	28	30.9	30.9	31.4	35.6	33.0	32.7	33.9	31.4
13	30.9	31.1	31.1	32.2	35.7	32.7	32.6	32.3	29	30.9	30.9	31.3	-	33.0	32.7	33.7	31.3
14	30.9	31.1	32.0	32.2	35.1	32.9	32.5	32.1	30	30.9	30.9	31.3	-	33.3	32.7	33.5	31.2
15	30.9	31.1	32.2	32.2	34.7	33.8	32.6	32.0	31	-	30.9	31.3	-	33.4	-	33.4	-
16	30.9	31.1	31.8	32.1	35.1	33.3	32.5	32.0									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
12-6-56	10:00 PM	31.9	3-6-57	12:00 Noon	42.0			
1-14-57	6:00 PM	32.7	4-18-57	9:00 PM	34.1			
1-21-57	8:15 PM	32.7	5-19-57	4:00 PM	38.0			
2-25-57	7:00 PM	39.8						

STATION DESCRIPTION

Cosumnes River at McConnell

Department of Water Reaources, U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station on U. S. Highway 99 bridges over Cosumnea River and overflow channels. Continuous water stage recorder and staff gage on third bridge pier from right bank of Cosumnes River and staff gagea on bridgea over each of the three overflow chsnnels, all set on U.S.E.D. Datum. Period of record 1931 to date. Records published in reports of Department of Water Resources and U.S.G.S. Water Supply Papers since October 1943. Maximum recorded stage and discharge 46.26 feet and 54,000 second-feet, December 23, 1955. Formerly published as Caumnes River at McConnell Station, station number 77 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 317

MOKELUMNE RIVER NEAR CLEMENTS
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.4	3.8	2.9	2.4	4.1	3.7	3.7	8.6	17	3.8	3.8	2.8	1.7	3.8	3.8	3.7	4.4
2	3.4	3.8	2.5	2.0	3.8	3.8	3.7	10.0	18	3.8	3.8	2.8	1.7	3.8	3.8	3.8	4.6
3	3.4	3.8	2.7	2.0	3.8	3.8	3.7	11.3	19	3.8	3.8	2.7	2.1	3.8	3.8	3.8	5.1
4	3.4	3.8	2.9	2.0	4.1	3.8	3.7	9.8	20	3.8	3.8	2.8	2.1	3.8	3.8	3.8	5.2
5	3.5	3.8	2.6	2.0	5.7	3.8	3.7	8.9	21	3.8	3.8	2.8	2.0	3.8	3.8	3.8	5.2
6	3.4	3.8	2.8	2.0	6.7	3.8	3.7	8.6	22	3.8	3.8	2.8	2.1	3.8	3.8	3.8	4.9
7	3.8	3.8	2.8	2.0	6.6	3.8	3.7	7.4	23	3.8	3.8	2.9	2.2	3.8	3.8	3.8	4.2
8	3.8	3.8	2.9	1.9	6.5	3.8	3.7	6.0	24	3.8	3.8	2.7	2.1	3.8	3.7	3.8	4.3
9	3.8	3.8	2.8	2.0	6.6	3.8	3.7	7.2	25	3.8	3.8	2.7	2.6	3.8	3.7	3.8	4.4
10	3.8	3.8	2.8	2.0	5.0	3.8	3.7	7.4	26	3.8	3.8	2.8	2.2	3.8	3.7	3.8	4.2
11	3.8	3.8	2.8	2.0	3.9	3.8	3.7	5.6	27	3.8	3.8	2.7	2.2	3.7	3.7	3.8	4.1
12	3.8	3.8	2.8	2.0	3.9	3.8	3.7	5.6	28	3.8	3.8	2.7	2.6	3.8	3.7	3.8	4.0
13	3.8	3.8	2.7	2.0	3.8	3.7	3.7	6.6	29	3.8	3.8	2.7	-	3.8	3.7	4.0	3.9
14	3.8	3.8	2.8	2.0	3.8	3.8	3.7	6.2	30	3.8	3.8	2.7	-	3.8	3.7	6.3	3.7
15	3.8	3.8	2.8	2.0	3.8	3.8	3.7	5.6	31	-	3.8	2.7	-	3.8	-	7.8	-
16	3.8	3.8	2.7	2.0	3.8	3.8	3.7	4.9									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-25-57	1:00 AM	4.4	6-3-57	9:00 AM	11.8			
3-1-57	2:00 AM	4.6	6-10-57	6:00 AM	7.5			
3-5-57	10:00 PM	7.1	6-13-57	2:00 AM	7.2			
3-9-57	4:00 PM	6.7	6-18-57	10:00 PM	5.5			

STATION DESCRIPTION

Mokelumne River near Clements

U. S. Geological Survey station* on left bank of Mokelumne River 700 feet upstream from Clements-Ione Highway Bridge, one mile north of Clements. Continuous water stage recorder and staff gage at an altitude of 67.17 feet, U.S.G.S. Datum. Period of record, 1904 to date. Prior to April 1926 staff gage was located at bridge 700 feet downstream with datum 1.93 feet higher. During period April 1926 to December 1930 recorder was located 75 feet downstream and with datum 0.07 foot lower. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge November 21, 1950, 24.4 feet and 28,800 second-feet. Formerly presented as station number 78 in Flood Flows and Stages series of reports.

* Operated by Department of Water Resources during 1954-55.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 318

MOKELUMNE RIVER AT WOODBRIDGE
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	7.6	8.7	8.3	6.7	7.7	7.7	7.1	14.5	17	8.8	8.7	6.7	4.8	8.8	7.9	6.5	9.1
2	7.7	8.7	7.0	5.8	8.5	7.6	7.2	15.7	18	8.8	8.7	6.8	NR	9.7	8.2	7.8	7.8
3	7.7	8.7	6.8	5.4	8.5	7.5	7.2	17.8	19	8.8	8.7	6.8	NR	8.7	8.0	7.7	9.8
4	7.7	8.7	6.9	5.3	8.7	7.4	6.9	19.2	20	8.7	8.7	6.9	5.1	8.7	7.8	7.7	9.5
5	7.7	8.8	7.0	5.2	9.8	7.4	7.1	17.5	21	8.8	8.7	6.8	5.1	8.7	7.9	7.7	9.6
6	7.9	8.7	6.8	5.1	12.6	7.3	7.0	16.6	22	8.8	8.7	6.7	5.1	8.7	7.9	7.7	9.3
7	8.6	8.7	6.9	5.1	13.0	7.4	6.8	15.7	23	8.8	8.7	6.8	5.3	8.7	7.8	7.7	8.5
8	10.2	8.7	6.9	5.1	13.0	7.3	6.8	12.8	24	8.7	8.6	6.9	5.3	8.6	7.5	7.7	7.3
9	8.9	8.7	7.0	5.1	13.1	7.2	6.8	12.5	25	8.7	8.6	6.7		8.6	7.3	7.6	7.8
10	8.8	8.7	6.8	5.1	13.0	7.0	6.9	13.8	26	8.7	8.6	6.7	5.8	6.9	7.1	7.6	7.6
11	8.8	8.7	6.8	5.1	9.9	6.9	7.0	13.2	27	8.7	8.6	6.8	5.5	6.7	7.1	6.8	7.2
12	8.8	8.7	6.8	5.0	9.0	7.0	7.0	9.6	28	8.7	8.6	6.7	5.4	7.6	7.1	7.0	6.8
13	8.8	8.7	7.0	5.0	8.9	7.0	7.0	12.4	29	8.7	8.6	6.7	-	7.7	6.8	6.8	6.8
14	8.7	8.7	6.8	5.0	8.8	7.5	6.9	11.7	30	8.7	8.6	6.7	-	7.7	6.8	9.3	6.6
15	8.8	8.6	6.8	5.0	8.8	7.5	7.0	11.6	31	-	8.6	6.7	-	7.7	-	12.6	-
16	8.8	8.7	6.8	5.0	8.8	7.4	7.0	9.7									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
11-8-56	11:00 AM	13.8	6-11-57	6:00 AM	13.9			
3-10-57	4:00 AM	13.2	5-13-57	5:00 PM	13.1			
5-18-57	1:00 PM	8.7	5-19-57	10:00 AM	10.4			
6-4-57	2:00 PM	19.6	5-21-57	12:00 Noon	9.8			

STATION DESCRIPTION

Mokelumne River at Woodbridge

U. S. Geological Survey station on left bank of Mokelumne River, 0.4 mile downstream from Woodbridge Irrigation District diversion dam. Continuous water stage recorder and staff gage with zero set at elevation 14.86 feet, U.S.G.S. Datum. Rating curve extended for flows in excess of 5,000 second-feet by contracted-opening determination. Period of record, 1925 to date. Discharges published in U.S.G.S. Water Supply Papers since 1929. Maximum recorded stage, 30.6 feet on present datum, March 26, 1928; discharge estimated about 24,000 second-feet. Maximum recorded stage and simultaneous discharge 29.58 feet and 27,000 second-feet, November 22, 1950. Formerly presented as station number 79 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 319

MOKELUMNE RIVER AT NEW HOPE BRIDGE
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.5 0.0	3.7 -0.2	3.5 -0.3	2.9 -0.5	4.1 1.3	3.4 -0.1	4.0 0.5	4.3 0.8	17	3.4 -0.5	3.7 -0.3	3.3 -0.4	3.3 0.3	4.1 1.2	3.9 0.8	4.1 0.9	2.9 -0.1
2	3.3 -0.2	3.7 -0.2	3.3 -0.3	2.7 -0.3	3.9 1.4	3.0 -0.4	4.3 0.6	4.1 0.8	18	3.7 -0.4	3.7 -0.4	3.1 -0.5	3.3 0.1	4.1 1.1	4.0 0.8	3.9 0.5	3.1 0.0
3	3.4 -0.3	3.8 -0.2	3.3 -0.4	2.4 -0.4	3.6 1.2	3.2 -0.3	3.8 0.3	3.8 0.8	19	3.4 -0.3	3.4 -0.5	2.8 -0.5	3.4 0.2	4.2 1.0	3.6 0.9	3.6 0.4	3.5 0.4
4	3.5 -0.4	4.0 0.0	3.0 -0.3	2.4 -0.5	3.6 1.0	3.4 0.5	3.8 0.4	3.6 0.9	20	3.5 -0.5	3.3 -0.6	3.4 -0.2	3.5 0.3	4.2 1.0	3.5 0.8	3.4 0.4	3.6 0.7
5	3.3 -0.3	3.8 0.1	2.6 -0.5	2.4 -0.6	3.7 1.1	3.5 0.4	3.7 0.6	3.8 1.1	21	3.3 -0.6	3.0 -0.5	3.1 0.0	3.7 0.4	3.8 0.4	3.1 0.7	3.4 0.9	3.5 0.5
6	3.1 -0.5	3.2 0.0	2.4 -0.6	2.6 -0.4	4.2 1.9	3.9 0.8	4.2 1.1	4.0 0.9	22	3.2 -0.6	2.5 -0.5	3.1 -0.3	3.6 0.3	2.8 -0.3	2.9 0.6	3.8 1.0	3.5 0.3
7	3.0 -0.6	2.5 -0.4	2.6 -0.6	3.1 0.0	4.8 3.0	3.1 0.2	3.7 0.7	4.0 1.1	23	2.9 -0.5	2.5 -0.8	3.2 -0.3	4.7 1.2	2.7 -0.3	3.0 0.6	3.7 1.1	3.6 0.2
8	2.7 -0.1	2.2 -0.8	3.1 -0.3	3.3 -0.4	4.5 2.3	3.5 0.6	3.6 0.9	4.3 1.1	24	2.6 -0.6	2.7 -0.8	3.3 -0.3	4.5 1.9	2.6 -0.2	3.0 0.6	3.9 1.3	4.0 0.3
9	2.4 -0.2	2.0 -0.8	2.8 -0.3	3.1 -0.7	4.4 1.9	3.3 0.4	3.7 1.0	4.5 0.9	25	2.7 -0.6	2.8 -0.7	3.4 -0.3	3.6 0.4	2.9 -0.1	3.0 0.6	4.0 0.8	4.1 0.3
10	2.5 -0.7	2.4 -0.8	3.1 -0.4	3.4 -0.5	4.1 1.6	3.2 0.5	3.9 1.0	4.3 0.7	26	2.9 -0.5	2.9 -0.6	3.4 -0.4	3.9 0.4	2.9 -0.1	3.1 0.6	3.8 0.5	4.4 0.5
11	2.7 -0.6	2.9 -0.5	3.6 -0.1	3.4 -0.5	4.1 1.2	3.2 0.6	4.1 1.0	4.4 0.7	27	3.1 -0.2	3.1 -0.6	3.3 -0.4	3.9 1.1	2.8 -0.2	3.3 0.5	4.0 0.5	4.6 0.6
12	2.9 -0.2	3.1 -0.2	3.8 0.1	3.4 -0.5	4.3 1.2	3.4 0.5	4.2 1.0	4.3 1.0	28	3.3 -0.2	3.2 -0.5	3.4 -0.4	4.0 1.0	2.9 0.2	3.4 0.5	4.4 1.1	4.7 0.8
13	3.1 -0.1	3.2 -0.3	4.5 0.5	3.5 -0.4	3.8 0.9	3.3 0.3	4.2 0.9	4.5 0.9	29	3.4 -0.3	3.4 -0.5	3.3 -0.5	-	3.1 0.2	3.7 0.6	4.6 0.9	4.8 0.8
14	2.9 -0.3	3.4 -0.4	4.0 0.5	3.5 -0.2	3.9 0.9	3.9 0.7	4.3 1.0	4.2 0.8	30	3.6 -0.3	3.6 -0.4	3.1 -0.4	-	3.2 0.2	4.3 0.9	4.4 0.7	4.4 0.7
15	3.0 -0.5	3.5 -0.4	3.8 0.0	3.3 -0.1	4.2 1.0	3.7 0.5	4.2 1.0	3.9 0.5	31	-	3.5 -0.3	2.9 -0.5	-	3.1 0.3	-	4.3 0.6	-
16	3.2 -0.5	3.7 -0.5	3.6 -0.2	3.4 -0.1	4.1 1.3	3.9 0.8	4.1 0.8	3.3 0.1									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

Mokelumne River at New Hope Bridge

Department of Water Resources station on right bank of South Fork of Mokelumne River immediately downstream from Walnut Grove-Thornton highway bridge. Continuous water stage recorder and staff gage with zero set at elevation of 0.26 foot, U.S.E.D. Datum, prior to August 6, 1940, and at elevation 2.84 feet, U.S.E.D. Datum and 0.00 feet, U.S.G.S. Datum, subsequent to that date. Period of record 1924 to date. Records published in reports of Department of Water Resources. Maximum recorded stage 13.33 feet (16.17 feet, U.S.E.D. Datum), December 25, 1955. Formerly presented as station number 80 in Flood Flows and Stages series of reports.

TABLE 320

GEORGIANA SLOUGH AT MOKELUMNE RIVER
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.5 -0.1	NR NR	NO RECORD	3.0 -0.4	4.0 1.0	3.3 -0.1	4.0 0.1	4.2 0.3
2	3.4 -0.2	NR NR		2.8 -0.1	3.7 1.1	2.9 -0.4	4.3 0.2	4.0 0.2
3	3.4 -0.2	NR NR		2.5 -0.3	3.5 0.9	3.2 -0.3	3.8 -0.1	3.7 0.1
4	3.5 -0.3	4.0 0.1		2.5 -0.3	3.5 0.8	3.3 -0.3	3.8 -0.1	3.6 0.0
5	3.3 -0.3	3.8 0.0		2.6 -0.4	2.5 -0.4	3.6 0.8	3.4 -0.3	3.7 0.2	3.8 0.4
6	3.1 -0.5	3.2 -0.3		2.4 -0.5	2.7 -0.2	3.7 1.0	3.8 0.2	4.1 0.6	3.8 0.4
7	3.0 -0.6	2.4 -0.7		2.6 -0.4	3.3 0.2	3.8 1.0	3.1 -0.5	3.6 0.2	3.9 0.6
8	2.6 -0.5			3.1 -0.1	3.4 -0.2	4.0 1.2	3.4 0.0	3.6 0.5	4.2 0.6
9	2.4 -0.6			2.9 -0.2	3.3 -0.5	4.1 1.0	3.2 -0.1	3.7 0.6	4.4 0.6
10	2.5 -0.6			3.2 -0.2	3.5 -0.4	3.8 0.6	3.1 0.1	3.9 0.6	4.3 0.3
11	2.7 -0.4	NO RECORD		3.7 0.0	3.5 -0.4	3.8 0.5	3.1 0.2	4.1 0.6	4.4 0.3
12	2.9 -0.1			3.9 0.1	3.5 -0.4	4.2 0.6	3.3 0.1	4.2 0.4	4.3 0.3
13	3.1 0.0			4.7 0.5	3.6 -0.1	3.8 0.4	3.3 -0.1	4.2 0.3	4.4 0.2
14	2.9 -0.2			4.1 0.0	3.6 -0.1	3.8 0.6	3.9 0.3	4.3 0.3	4.1 0.1
15	NR NR			3.9 -0.2	3.4 0.0	4.1 1.0	3.6 -0.1	4.2 0.3	3.9 -0.1
16	NR NR			3.7 -0.2	3.4 0.0	4.0 1.0	3.8 0.1	4.1 0.2	3.3 -0.4
17				3.4 -0.3	3.4 0.4	4.0 0.9	3.8 0.0	4.1 0.3	2.9 -0.5
18				3.2 -0.4	3.4 0.3	4.0 0.8	3.9 0.0	3.9 0.4	3.1 -0.3
19				2.9 -0.4	3.5 0.3	4.1 0.7	3.5 0.0	3.7 0.3	3.5 0.1
20				3.5 -0.1	3.5 0.1	4.2 0.7	3.4 -0.1	3.3 0.2	3.6 0.4
21				3.1 0.2	3.7 0.2	3.7 1.0	2.9 -0.2	3.7 0.5	3.6 0.4
22				3.1 -0.2	3.6 0.0	2.8 -0.4	2.8 -0.2	3.7 0.6	3.6 0.1
23	NO RECORD	NO RECORD		3.3 -0.1	4.7 0.8	2.7 -0.5	2.9 -0.2	3.7 0.9	3.6 0.0
24				3.4 -0.2	4.4 1.1	2.6 -0.4	2.8 0.0	3.8 1.1	4.0 0.0
25				3.4 -0.2	3.6 0.3	2.8 -0.2	2.9 0.1	3.9 0.6	4.1 0.1
26				3.5 -0.3	3.8 0.5	2.8 -0.1	3.0 0.1	3.8 0.4	4.5 0.3
27				3.4 -0.4	3.8 0.6	2.8 -0.1	3.2 0.1	4.0 0.4	4.6 0.4
28				3.5 -0.4	4.0 0.6	2.8 0.2	3.4 0.1	4.5 0.9	4.8 0.6
29				3.3 -0.4	-	3.0 0.4	3.7 0.2	4.7 0.7	4.9 0.6
30				3.2 -0.3	-	3.1 0.2	4.2 0.5	4.6 0.5	4.4 0.5
31	-			2.9 -0.4	-	3.1 0.2	-	4.4 0.3	-

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	OHT	Discharge	Meas. By	Date	OHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

Georgiana Slough at Mokelumne River

Department of Water Resources station on right bank of Georgiana Slough, 300 feet upstream from Mokelumne River. Continuous water stage recorder and staff gage with zero set at 0.00 foot, U.S.E.D. Datum, prior to August 21, 1940, and 0.00 foot, U.S.G.S. Datum and 3.11 feet, U.S.E.D. Datum, subsequent to that date. Period of record, 1929 to date. Records in files of Department of Water Resources and published since 1944 in reports of that agency. Highest recorded stage, 10.2 feet, U.S.E.D. Datum and 7.1 feet, U.S.G.S. Datum, December 26, 1955. Formerly presented as station number 81 in Flood Flows and Stages series of reports.

TABLE 321

THREEMILE SLOUGH AT SACRAMENTO RIVER
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.9 -1.1	4.0 -1.1	3.7 -1.3	3.2 -0.9	4.3 0.4	3.6 -1.0	4.1 -0.9	4.5 -0.8	17	3.7 -1.3	4.0 -1.4	3.7 -1.4	3.7 -0.6	4.4 -0.1	4.0 -1.1	4.2 -0.7	2.9 -1.3
2	3.8 -1.2	4.0 -1.1	3.6 -1.2	2.9 -1.1	4.0 0.2	3.2 -1.4	4.4 -0.8	4.2 -0.9	18	4.1 -1.3	4.0 -1.4	3.5 -1.4	3.7 -0.6	4.4 -0.2	4.0 -1.0	4.0 -0.4	3.2 -0.9
3	3.7 -1.2	4.0 -1.0	3.6 -1.0	2.7 -1.1	3.7 0.2	3.5 -1.3	3.9 -1.1	3.8 -0.9	19	3.7 -1.4	3.7 -1.5	3.1 -1.3	3.8 -0.5	4.5 -0.2	3.5 -1.0	3.7 -0.5	3.5 -0.4
4	3.8 -1.2	4.2 -1.0	3.2 -1.2	2.7 -1.1	3.8 0.1	3.6 -1.3	3.9 -1.1	3.8 -0.9	20	3.8 -1.4	3.6 -1.5	3.8 -1.0	3.7 -0.6	4.5 -0.2	3.3 -1.0	3.2 -0.6	3.7 0.0
5	3.5 -1.2	4.0 -0.9	2.8 -1.2	2.7 -1.1	3.8 0.0	3.4 -1.2	3.8 -0.7	4.0 -0.5	21	3.6 -1.4	3.3 -1.4	3.4 -0.7	3.8 -0.6	3.8 -0.9	2.8 -1.0	3.7 -0.1	3.7 -0.1
6	3.2 -1.3	3.3 -0.9	2.6 -1.2	2.9 -0.7	3.8 0.1	3.7 -0.6	4.1 -0.2	4.2 -0.3	22	3.4 -1.4	2.7 -1.4	3.4 -0.8	3.6 -0.8	2.9 -1.3	2.8 -1.0	3.7 0.1	3.8 -0.5
7	3.0 -1.3	2.6 -1.2	2.8 -1.1	3.4 -0.5	3.8 0.1	3.0 -1.4	3.6 -0.6	4.5 -0.2	23	3.1 -1.4	2.7 -1.4	3.6 -0.9	4.8 -0.1	2.6 -1.2	2.8 -0.9	4.0 0.3	4.2 -0.7
8	2.6 -1.3	2.3 -1.4	3.4 -0.7	3.6 -0.9	3.9 0.6	3.4 -0.8	3.8 -0.3	4.5 -0.2	24	2.8 -1.4	2.9 -1.4	3.6 -1.0	4.5 0.2	2.6 -1.1	2.8 -0.8	4.1 0.4	4.2 -0.7
9	2.5 -1.3	2.1 -1.6	3.1 -0.7	3.4 -1.3	4.1 0.4	3.3 -1.0	3.8 -0.2	4.7 -0.4	25	2.9 -1.3	3.0 -1.2	3.7 -1.1	3.8 -0.5	2.9 -0.9	2.9 -0.6	4.1 -0.2	4.4 -0.7
10	2.6 -1.2	2.5 -1.4	3.4 -0.9	3.7 -1.3	3.8 -0.2	3.2 -0.8	4.1 -0.2	4.6 -0.7	26	3.2 -1.1	3.2 -1.4	3.7 -1.2	4.0 -0.4	2.9 -0.9	3.1 -0.7	4.1 -0.5	4.7 -0.6
11	2.9 -1.0	3.1 -0.8	3.9 -0.7	3.8 -1.4	3.9 -0.4	3.3 -0.8	4.3 -0.4	4.7 -0.8	27	3.4 -0.8	3.4 -1.4	3.6 -1.3	4.0 -0.3	2.9 -0.9	3.3 -0.6	4.3 -0.5	4.9 -0.6
12	3.1 -0.7	3.3 -0.9	4.2 -0.8	3.8 -1.4	4.4 -0.4	3.5 -0.8	4.4 -0.6	4.6 -0.8	28	3.7 -1.0	3.5 -1.4	3.7 -1.3	4.2 0.2	2.9 -0.6	3.5 -0.9	4.8 0.0	5.1 -0.4
13	3.4 -0.6	3.5 -1.1	5.0 -0.5	4.0 -1.2	4.1 -0.7	3.5 -1.1	4.4 -0.7	4.6 -0.9	29	3.7 -1.2	3.6 -1.4	3.6 -1.2	-	3.3 -0.3	3.8 -0.7	4.9 -0.3	5.1 -0.4
14	3.1 -1.0	3.6 -1.3	4.5 -1.0	4.0 -1.0	4.2 -0.4	4.3 -0.8	4.5 -0.7	4.2 -0.9	30	3.9 -1.2	3.9 -1.3	3.4 -1.4	-	3.4 -0.6	4.3 -0.5	4.8 -0.6	4.7 -0.5
15	3.3 -1.3	3.8 -1.4	4.3 -1.3	3.7 -1.0	4.4 0.2	3.8 -1.2	4.3 -0.8	3.9 -1.1	31		- -1.3	3.8 -1.3	3.2 -1.3	- -	3.4 -0.6	- -	4.7 -0.8	-
16	3.4 -1.3	4.0 -1.3	4.1 -1.4	3.7 -0.5	4.3 -0.1	4.0 -1.1	4.2 -0.9	3.3 -1.3									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Threemile Slough at Sacramento River

Department of Water Resources station on right bank of Threemile Slough, 300 feet downstream from Sacramento River. Zero of continuous water stage recorder and staff gage set on U.S.E.D. Datum prior to August 23, 1940, and at elevation 0.00 foot, U.S.C.S. Datum, and 3.22 feet, U.S.E.D. Datum, subsequent to that date. Period of record 1930 to date. Records in files of Department of Water Resources and published since 1944 in reports of that agency. Highest recorded stage, 9.9 feet, U.S.E.D. Datum and 6.7 feet, U.S.C.S. Datum, December 26, 1955. Formerly presented as station number 82 in Flood Flows and Stages series of reports.

TABLE 322

THREEMILE SLOUGH AT SAN JOAQUIN RIVER
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.0 -0.7	3.3 -0.7	3.0 -0.9	2.4 -0.7	3.4 0.5	2.8 -0.6	3.5 -0.5	3.7 -0.5	17	2.9 -0.9	3.3 -1.0	2.9 -0.9	2.9 -0.2	3.5 0.2	3.2 -0.6	3.5 -0.3	2.2 -1.0
2	2.9 -0.8	3.3 -0.7	2.8 -0.9	2.2 -0.7	3.1 0.3	2.4 -1.0	3.7 -0.4	3.5 -0.5	18	3.2 -0.9	3.3 -1.0	2.7 -1.0	2.9 -0.3	3.5 0.1	3.3 -0.7	3.3 -0.1	2.5 -0.8
3	2.9 -0.8	3.3 -0.7	2.9 -0.8	2.0 -0.8	2.9 0.3	2.6 -0.9	3.2 -0.7	3.1 -0.6	19	3.0 -0.9	2.9 -1.0	2.4 -0.9	3.0 -0.2	3.6 0.1	2.8 -0.7	3.1 -0.3	2.8 -0.4
4	3.1 -0.8	3.5 -0.6	2.5 -0.7	2.0 -0.8	2.9 0.2	2.8 -1.0	3.2 -0.7	3.0 -0.6	20	3.0 -1.1	2.8 -1.1	3.0 -0.7	3.0 -0.4	3.6 0.0	2.7 -0.7	2.7 -0.4	3.0 -0.1
5	2.8 -0.8	3.3 -0.4	2.1 -0.9	1.9 -0.9	3.0 0.1	2.7 -1.0	3.1 -0.4	3.2 -0.3	21	2.8 -1.1	2.5 -1.0	2.6 -0.4	3.1 -0.4	3.1 -0.6	2.3 -0.8	3.0 -0.1	2.9 -0.1
6	2.5 -1.0	2.7 -0.5	1.9 -1.0	2.1 -0.7	3.0 0.2	3.0 -0.3	3.4 0.0	3.3 -0.3	22	2.7 -1.1	2.0 -1.0	2.6 -0.6	3.0 -0.5	2.2 -1.1	2.1 -0.8	3.0 0.1	3.0 -0.5
7	2.4 -1.1	2.0 -0.8	2.1 -0.9	2.7 -0.3	3.1 0.1	2.4 -1.2	3.0 -0.3	3.3 0.0	23	2.3 -1.0	1.9 -1.3	2.8 -0.6	4.1 0.2	2.0 -1.1	2.2 -0.7	3.0 0.2	3.0 -0.5
8	2.0 -1.0	1.7 -1.3	2.6 -0.6	2.9 -0.7	3.3 0.5	2.7 -0.6	3.0 0.0	3.7 0.0	24	2.1 -1.0	2.2 -1.3	2.9 -0.7	3.8 0.4	1.9 -0.9	2.2 -0.6	3.2 0.5	3.4 -0.4
9	1.9 -1.1	1.5 -1.5	2.4 -0.6	2.7 -1.0	3.5 0.3	2.5 -0.8	3.1 0.1	3.9 -0.1	25	2.2 -1.1	2.3 -1.0	2.9 -0.8	3.1 -0.3	2.2 -0.8	2.2 -0.5	3.3 0.0	3.6 -0.4
10	1.9 -1.0	1.8 -1.3	2.6 -0.7	3.0 -0.9	3.1 -0.2	2.5 -0.6	3.3 0.1	3.7 -0.3	26	2.4 -0.8	2.4 -1.1	2.9 -0.8	3.2 -0.1	2.2 -0.7	2.3 -0.5	3.3 -0.2	3.9 -0.3
11	2.2 -0.9	2.4 -0.8	3.2 -0.4	3.0 -1.0	3.2 -0.3	2.5 -0.5	3.5 0.0	3.9 -0.3	27	2.6 -0.6	2.6 -1.1	2.9 -0.9	3.2 -0.1	2.2 -0.7	2.5 -0.5	3.5 -0.2	4.1 -0.2
12	2.4 -0.6	2.6 -0.6	3.5 -0.5	3.0 -1.0	3.6 -0.2	2.7 -0.5	3.6 -0.1	3.8 -0.4	28	2.9 -0.6	2.7 -1.0	3.0 -0.9	3.4 0.3	2.3 -0.4	2.8 -0.5	3.9 0.2	4.3 -0.1
13	2.6 -0.5	2.7 -0.8	4.2 -0.1	3.2 -0.7	3.2 -0.4	2.6 -0.7	3.6 -0.3	3.8 -0.4	29	3.0 -0.8	2.9 -1.0	2.9 -0.8	- -	2.5 -0.2	3.1 -0.4	4.1 0.1	4.3 0.0
14	2.4 -0.7	2.9 -0.9	3.7 -0.6	3.1 -0.6	3.2 -0.1	3.3 -0.4	3.7 -0.3	3.5 -0.5	30	3.1 -0.8	3.2 -0.8	2.7 -1.0	- -	2.6 -0.4	3.6 -0.2	4.0 -0.1	3.9 -0.2
15	2.5 -1.0	3.1 -1.0	3.5 -0.8	2.9 -0.6	3.5 0.4	3.0 -0.8	3.6 -0.4	3.2 -0.8	31	- -	3.1 -0.9	2.4 -0.9	- -	2.6 -0.4	- -	3.8 -0.4	- -
16	2.7 -1.0	3.3 -0.9	3.2 -0.9	2.9 -0.6	3.4 0.2	3.2 -0.6	3.5 -0.4	2.7 -1.0									

CREST STAOES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

Threemile Slough at San Joaquin River

Department of Water Resources station on right bank of Threemile Slough, 500 feet upstream from San Joaquin River. Zero of continuous water stage recorder and staff gage set on U.S.E.D. Datum prior to August 22, 1940, and at elevation 0.00 foot, U.S.G.S. Datum, and 2.89 feet, U.S.E.D. Datum, subsequent to that date. Period of record 1939 to date. Records in files of Department of Water Resources and published since 1944 in reports of that agency. Highest recorded stage*, 8.65 feet, U.S.E.D. Datum, and 5.76 feet, U.S.G.S. Datum, December 28, 1940. Formerly presented as station number 83 in Flood Flows and Stages series of reports.

* Record not complete in December 1955

TABLE 323

CALAVERAS RIVER AT JENNY LIND
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.0	1.7	1.8	2.0	3.0	1.6	1.7	2.6	17	1.7	1.8	2.2	1.2	1.8	1.6	1.7	2.7
2	2.0	1.7	1.8	2.0	3.4	1.5	1.7	2.7	18	1.7	1.8	2.1	1.2	1.8	1.7	1.7	2.6
3	1.9	1.7	1.8	2.0	4.7	1.5	1.7	2.7	19	1.7	1.8	2.0	1.2	1.8	1.7	1.8	2.8
4	1.8	1.7	1.8	2.0	4.7	1.5	1.7	2.6	20	1.7	1.8	2.1	1.2	1.8	1.6	1.8	2.8
5	1.7	1.8	1.8	2.0	6.4	1.5	1.6	2.6	21	1.7	1.9	2.8	1.3	1.7	1.7	1.8	2.9
6	1.7	2.1	1.9	2.0	6.9	1.5	1.6	2.6	22	1.7	1.9	2.8	1.3	1.7	1.7	1.8	3.0
7	1.7	2.2	1.9	2.0	6.6	1.5	1.6	2.6	23	1.7	1.9	2.5	1.3	1.6	1.8	1.8	2.9
8	1.7	2.1	1.9	2.0	5.2	1.5	1.6	2.7	24	1.7	2.0	2.3	1.5	1.6	1.8	1.8	2.9
9	1.7	2.0	1.9	2.2	2.2	1.5	1.7	2.8	25	1.7	1.9	2.2	1.9	1.6	1.8	1.7	2.9
10	1.7	1.9	1.9	2.4	2.0	1.6	1.7	2.8	26	1.7	1.9	2.3	1.6	1.6	1.8	1.7	2.9
11	1.7	1.9	1.9	2.3	1.9	1.6	1.7	2.8	27	1.7	1.9	2.3	1.8	1.6	1.7	1.7	2.8
12	1.6	1.8	1.9	2.3	2.0	1.6	1.7	2.8	28	1.7	1.9	2.3	2.4	1.6	1.7	1.7	2.8
13	1.6	1.8	2.0	2.4	2.0	1.6	1.7	2.9	29	1.7	1.9	2.2	-	1.6	1.7	1.8	2.8
14	1.6	1.8	2.5	2.3	1.9	1.6	1.7	2.9	30	1.7	1.9	2.1	-	1.6	1.7	2.2	2.8
15	1.7	1.8	2.6	2.1	1.8	1.6	1.7	2.9	31	-	1.9	2.1	-	1.6	-	2.4	-
16	1.7	1.8	2.3	1.4	1.8	1.6	1.7	2.9									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
3-2-57	11:00 PM	5.0						
3-5-57	6:00 PM	7.2						
6-21-57	11:00 PM	3.0						

STATION DESCRIPTION

Calaveras River at Jenny Lind

U. S. Geological Survey station on right bank of Calaveras River, 70 feet downstream from Milton Road bridge, one-quarter mile south of Jenny Lind. Continuous water stage recorder and staff gage at an altitude of about 224 feet. Rating curve extended for flows in excess of 11,000 second-feet by logarithmic plotting. Period of record, 1907 to date. Discharges published in U.S.G.S. Water Supply Papers. Maximum recorded stage and discharge 14.0 feet (21.0 feet on present gage) and 50,000 second-feet, January 31, 1911. Formerly presented as station number 84 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 324

SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	58.6	58.4	58.5	59.1	60.1	59.9	59.6	59.5	17	58.4	58.4	59.4	60.2	60.0	59.6	59.8	59.8
2	58.5	58.4	58.5	59.1	60.2	59.9	59.6	59.7	18	58.4	58.4	59.3	60.0	59.9	60.0	59.8	59.7
3	58.4	58.4	58.5	59.2	60.4	59.9	59.5	60.1	19	58.4	58.4	59.3	59.7	59.9	60.6	60.0	59.6
4	58.4	58.4	58.4	59.2	61.5	59.8	59.5	60.5	20	58.4	58.4	59.3	59.5	59.8	61.0	60.7	59.4
5	58.4	58.4	58.4	59.1	63.9	59.8	59.5	60.6	21	58.4	58.4	59.3	59.4	59.8	61.0	61.3	59.4
6	58.4	58.5	58.5	59.0	64.8	59.7	59.4	60.5	22	58.4	58.4	59.3	59.3	59.8	61.0	61.7	59.2
7	58.4	58.5	58.5	59.0	64.9	59.6	59.2	60.3	23	58.3	58.4	59.2	59.3	59.8	60.9	61.8	59.2
8	58.4	58.5	59.0	59.1	63.5	59.5	59.2	60.0	24	58.4	58.4	59.2	59.3	59.8	60.9	62.1	59.3
9	58.4	58.5	59.2	59.5	61.8	59.5	59.2	59.8	25	58.3	58.4	59.2	59.3	59.8	60.9	62.0	59.3
10	58.4	58.4	59.2	59.7	61.0	59.4	59.0	60.0	26	58.3	58.5	59.2	59.4	59.8	60.8	61.7	59.2
11	58.5	58.4	59.2	61.1	60.6	59.4	59.1	60.1	27	58.3	58.5	59.3	59.8	59.8	60.7	61.2	59.2
12	58.5	58.4	59.6	63.1	60.4	59.2	59.1	59.9	28	58.3	58.5	59.3	60.0	59.7	60.5	60.8	59.3
13	58.5	58.4	59.8	63.9	60.3	59.2	59.2	59.8	29	58.3	58.5	59.2	-	59.7	60.3	60.4	59.3
14	58.5	58.4	59.8	63.8	60.1	59.2	59.3	59.7	30	58.4	58.5	59.2	-	59.7	60.0	59.9	59.2
15	58.5	58.4	59.7	61.2	60.0	59.4	59.4	59.6	31	-	58.5	59.1	-	59.8	-	59.6	-
16	58.5	58.4	59.6	60.5	60.0	59.4	59.6	59.7									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-14-57	1:00 AM	64.2						
3-7-57	5:00 AM	65.0						
5-24-57	8:00 AM	62.1						

STATION DESCRIPTION

San Joaquin River at Fremont Ford Bridge

U. S. Geological Survey, Department of Water Resources, and U. S. Bureau of Reclamation cooperative station on left bank of San Joaquin River downstream from Fremont Ford Bridge on Merced-Gustine highway. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Period of record 1937 to date. The first recorder and gages, installed April 9, 1937, were set with zero at elevation 46.44 feet, U.S.G.S. Datum (50.17 feet, U.S.E.D. Datum). Discharges at this station include the combined flows of San Joaquin River and three overflow channels, known locally as North, Middle and South Mud Sloughs. Station rated by simultaneous measurements on all four channels in conjunction with stage observations at San Joaquin River near Newman station to allow for the effect of backwater from Merced River. Records published in reports of Department of Water Resources. Maximum recorded stage and discharge, 71.5 feet, U.S.E.D. Datum, and 18,900 second-feet, March 7, 1938. Formerly presented as station number 85 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 325

MERCED RIVER BELOW SNELLING
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	182.5	182.4	182.5	182.5	182.8	183.1	183.5	186.0	17	182.5	182.5	182.4	182.5	184.2	183.8	183.6	183.6
2	182.5	182.4	182.5	182.5	182.9	183.6	183.5	186.4	18	182.5	182.5	182.4	182.5	184.2	184.3	183.7	183.5
3	182.5	182.4	182.4	182.5	182.9	183.3	183.5	186.5	19	182.4	182.5	182.4	182.5	184.2	184.2	183.9	183.5
4	182.4	182.4	182.4	182.5	182.8	•183.5	183.5	186.4	20	182.4	182.5	182.5	182.5	184.1	184.1	183.9	183.6
5	182.5	182.5	182.4	182.5	182.8	183.4	183.4	186.3	21	182.4	182.5	182.6	182.5	184.1	184.0	184.0	183.6
6	182.5	182.5	182.4	182.5	•183.5	183.3	183.4	186.0	22	182.4	182.5	182.5	182.5	184.1	183.9	184.0	183.6
7	182.5	182.4	182.4	182.6	184.2	183.3	183.2	185.2	23	182.4	182.6	182.5	•183.0	184.0	184.0	184.0	183.4
8	182.5	182.4	182.5	182.6	184.2	183.3	183.0	185.4	24	182.4	182.5	182.5	•183.0	183.9	184.0	184.0	183.2
9	182.4	182.4	182.5	182.6	184.2	183.3	183.0	185.3	25	182.4	182.5	182.5	•183.3	183.7	184.0	184.0	183.1
10	182.4	182.5	182.5	182.6	184.2	183.3	182.9	184.7	26	182.4	182.5	182.5	182.9	183.6	183.9	183.9	183.0
11	182.8	182.4	182.4	182.5	184.2	183.2	182.9	184.2	27	182.4	182.5	182.5	182.8	183.4	183.8	183.8	183.0
12	183.0	182.4	182.5	182.5	184.1	183.2	183.2	184.1	28	182.4	182.5	182.5	182.7	183.3	183.7	183.8	183.0
13	183.0	182.5	182.6	182.5	184.1	183.2	183.2	184.2	29	182.4	182.6	182.5	-	183.2	183.7	•183.9	183.0
14	183.0	182.5	182.5	182.6	184.1	183.2	183.4	184.2	30	182.4	182.5	182.6	-	183.2	183.7	•184.9	183.0
15	182.7	182.5	182.5	182.6	184.2	183.2	183.6	184.1	31	-	182.5	182.6	-	183.1	-	185.5	-
16	182.5	182.5	182.5	182.5	184.2	183.5	183.6	183.8									

•Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-23-57	3:30 PM	184.0	6-2-57	5:00 PM	186.6			
3-9-57	6:00 PM	184.3						
4-4-57	6:00 PM	184.2						
4-18-57	5:00 AM	184.3						

STATION DESCRIPTION

Merced River below Snelling

Department of Water Resources station on center pier of highway bridge about twelve miles north of the City of Merced immediately downstream from Yosemite Valley Railroad trestle. Continuous water stage recorder and staff gage set on U.S.E.O. Datum, prior to August 8, 1952, and at elevation 183.26 U.S.G.S. Datum, subsequent to that date. Period of record 1938 to date. Records published in reports of Department of Water Resources. Maximum recorded stage and discharge 10.1 feet (193.36 feet on present gage) and 26,000 second-feet, December 4, 1950. Formerly presented as station number 86 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 326

MERCED RIVER AT CRESSEY
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	1.0	0.9	1.0	1.0	*1.4	1.2	1.5	8.1	17	1.0	1.0	1.1	1.0	3.4	1.4	1.4	2.6
2	1.0	0.9	1.0	1.0	1.8	1.2	1.3	8.9	18	1.0	1.0	1.0	1.0	3.4	*2.7	1.5	2.1
3	1.0	1.0	1.0	1.0	1.5	1.4	1.2	9.7	19	1.0	1.0	1.0	1.0	3.4	3.6	1.9	1.8
4	1.0	1.0	1.0	1.0	1.3	1.3	1.2	9.7	20	0.9	1.0	1.1	1.0	3.4	3.4	2.3	2.0
5	1.0	1.0	1.0	1.0	*1.4	1.6	1.2	9.6	21	1.0	1.0	1.1	1.0	3.4	3.4	2.4	2.1
6	1.0	1.0	1.0	1.0	*2.5	1.3	1.1	9.1	22	1.0	1.0	1.1	1.0	3.3	2.9	2.6	1.9
7	1.0	1.0	1.0	1.0	*3.1	1.2	1.0	7.8	23	0.9	1.0	1.1	1.1	3.3	2.8	2.7	1.6
8	1.0	1.0	1.0	1.1	3.4	1.2	1.0	7.0	24	0.9	1.0	1.1	*1.8	2.8	2.7	2.8	1.3
9	1.0	1.0	1.0	1.1	3.5	1.2	0.9	7.6	25	0.9	1.0	1.1	*2.2	2.2	2.6	2.7	1.2
10	1.0	1.0	1.1	1.0	3.5	1.2	0.9	6.5	26	0.9	1.0	1.1	*1.9	1.9	2.6	2.5	1.0
11	1.0	1.0	1.0	1.0	3.5	1.1	0.9	4.9	27	0.9	1.0	1.1	1.4	1.6	2.0	2.2	1.0
12	1.0	1.0	1.0	1.0	3.5	1.1	0.9	4.2	28	0.9	1.0	1.1	1.3	1.4	1.8	2.0	0.9
13	1.2	1.0	1.1	1.0	3.4	1.1	1.0	4.1	29	0.9	1.0	1.1	-	1.3	1.7	1.7	0.9
14	1.2	1.0	1.1	1.0	3.4	1.1	1.0	4.1	30	1.0	1.0	1.1	-	1.2	1.6	3.6	0.8
15	1.2	1.0	1.1	1.0	3.4	1.1	1.2	4.0	31	-	1.0	1.1	-	1.2	-	6.0	-
16	1.1	1.0	1.1	1.1	3.4	1.2	1.4	3.4									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-24-57	3:00 PM	2.4	3-11-57	12:00 Noon	3.8			
2-25-57	5:45 PM	3.0	4-19-57	3:00 PM	3.7			
3-6-57	4:00 AM	3.2	5-23-57	12:00 Noon	2.8			
3-7-57	2:00 PM	3.7	6-4-57	4:00 AM	9.9			

STATION DESCRIPTION

Merced River At Cressey

Department of Water Resources station on left bank of Merced River 400 feet upstream from highway bridge near Cressey. Continuous water stage recorder and staff gage set at an altitude of about 100 feet. Period of record 1941 to date. Records in files of Department of Water Resources and published since 1944 in reports of that agency. Station rated for low and medium flows only. Highest recorded stage, 22.7 feet, December 4, 1950. Formerly presented as station number 87 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 327

SAN JOAQUIN RIVER NEAR NEWMAN
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	1.6	1.5	1.5	2.2	3.2	2.6	2.9	5.4	17	1.6	1.4	2.4	2.7	4.0	2.3	2.8	4.2
2	1.6	1.5	1.5	2.1	3.3	2.5	2.7	6.9	18	1.5	1.4	2.4	2.6	4.0	2.8	2.8	3.8
3	1.5	1.4	1.5	2.1	3.5	2.5	2.5	7.8	19	1.5	1.4	2.3	2.4	4.0	3.7	3.0	3.5
4	1.5	1.4	1.5	2.1	3.7	2.5	2.4	8.3	20	1.4	1.4	2.3	2.3	3.9	4.4	3.5	3.3
5	1.5	1.5	1.4	2.1	5.1	2.5	2.4	8.4	21	1.4	1.4	2.3	2.2	3.9	4.5	4.1	3.2
6	1.5	1.5	1.4	2.0	6.5	2.5	2.4	8.4	22	1.5	1.4	2.3	2.2	3.9	4.4	4.4	3.2
7	1.5	1.6	1.5	2.0	6.5	2.4	2.2	8.0	23	1.5	1.4	2.3	2.2	3.9	4.2	4.6	3.1
8	1.5	1.6	1.8	2.0	6.1	2.3	2.1	7.0	24	1.6	1.4	2.2	2.3	3.8	4.2	4.8	3.0
9	1.4	1.6	2.2	2.4	5.2	2.3	2.1	6.9	25	1.6	1.4	2.2	2.5	3.6	4.2	4.8	2.8
10	1.4	1.5	2.3	2.9	4.6	2.2	2.0	7.0	26	1.6	1.5	2.3	2.9	3.3	4.1	4.6	2.7
11	1.5	1.5	2.3	2.9	4.4	2.2	1.9	6.2	27	1.6	1.5	2.3	3.1	3.1	4.0	4.2	2.5
12	1.6	1.5	2.4	4.2	4.3	2.1	2.0	5.2	28	1.5	1.5	2.3	3.2	2.9	3.6	3.8	2.5
13	1.6	1.5	2.7	4.9	4.2	2.1	2.1	4.7	29	1.5	1.5	2.3	-	2.9	3.4	3.4	2.5
14	1.7	1.5	2.7	5.2	4.1	2.1	2.2	4.6	30	1.5	1.5	2.3	-	2.7	3.1	3.1	2.4
15	1.7	1.5	2.6	4.2	4.1	2.3	2.4	4.6	31	-	1.5	2.3	-	2.6	-	3.9	-
16	1.7	1.4	2.5	3.2	4.0	2.2	2.6	4.5									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-13-57	12:00 Noon	2.7	5-24-57	11:00 PM	4.9			
2-10-57	1:00 AM	3.8	6-5-57	8:00 AM	8.4			
2-14-57	7:00 PM	5.4						
4-20-57	2:00 PM	4.5						

STATION DESCRIPTION

San Joaquin River near Newman

U. S. Geological Survey station on left bank of San Joaquin River at Hills Ferry Bridge, 3.5 miles northeast of Newman. Continuous water stage recorder and staff gage with zero set at elevation 51.0 feet, U.S.E.D. Datum. Period of record, 1912 to date. Discharges published in U.S.G.S. Water Supply Papers; flood season stages in reports of Department of Water Resources. Maximum recorded stage and discharge, 18.5 feet and 33,000 second-feet, March 7, 1938. Formerly presented as station number 88 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 328

SAN JOAQUIN RIVER AT PATTERSON BRIDGE
Floqd Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	36.7	36.4	36.5	37.0	37.9	37.2	37.4	38.8	17	36.7	36.4	37.2	37.6	38.8	36.7	37.3	38.9
2	36.7	36.4	36.5	37.0	37.9	37.0	37.2	40.3	18	36.6	36.5	37.2	37.4	38.7	37.4	37.4	38.4
3	36.7	36.4	36.5	36.9	38.0	36.8	37.0	41.6	19	36.5	36.4	37.1	37.3	38.7	37.8	37.8	37.9
4	36.7	36.4	36.5	36.9	38.1	36.9	37.0	42.4	20	36.5	36.4	37.1	37.1	38.6	38.6	38.1	37.6
5	36.7	36.5	36.5	36.9	38.9	36.7	37.0	42.9	21	36.5	36.4	37.1	37.0	38.5	39.1	38.7	37.5
6	36.6	36.5	36.5	36.9	40.4	36.6	37.1	43.1	22	36.5	36.4	37.1	37.0	38.5	39.2	39.1	37.5
7	36.6	36.5	36.5	36.9	41.0	36.6	37.0	43.0	23	36.5	36.5	37.1	37.1	38.7	39.0	39.3	37.4
8	36.6	36.6	36.6	36.8	41.0	36.6	36.8	42.4	24	36.5	36.5	37.1	37.3	38.6	38.8	39.4	37.4
9	36.6	36.6	36.8	36.9	40.3	36.6	36.7	41.6	25	36.5	36.5	37.0	38.0	38.4	38.7	39.5	37.1
10	36.5	36.5	37.0	37.4	39.6	36.4	36.7	41.8	26	36.5	36.4	37.1	37.7	38.1	38.5	39.4	36.9
11	36.5	36.5	37.1	37.3	39.2	36.4	36.8	41.3	27	36.5	36.4	37.1	37.7	37.9	38.3	39.0	36.7
12	36.6	36.5	37.1	38.0	39.1	36.4	36.9	40.3	28	36.5	36.5	37.1	37.8	37.7	38.2	38.5	36.6
13	36.6	36.5	37.3	39.0	39.0	36.3	36.8	39.5	29	36.5	36.5	37.1	-	37.5	37.9	38.0	36.6
14	36.7	36.5	37.4	39.5	38.9	36.8	36.8	39.1	30	36.4	36.5	37.1	-	37.4	37.6	37.7	36.6
15	36.7	36.5	37.3	39.3	38.8	37.1	37.0	39.0	31	-	36.5	37.1	-	37.3	-	37.6	-
16	36.7	36.5	37.3	38.2	38.8	36.7	37.1	39.0									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-14-57	1:00 AM	37.4	3-7-57	8:00 PM	41.0			
2-10-57	3:00 PM	37.7	4-22-57	12:30 AM	39.3			
2-15-57	2:00 AM	39.6	5-25-57	11:00 AM	39.5			
2-25-57	1:00 PM	38.3	6-6-57	6:00 PM	43.1			

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

San Joaquin River at Patterson Bridge

Department of Water Resources station near left bank of San Joaquin River on downstream side of Patterson-Turlock highway bridge. Continuous water stage recorder and staff gage aet on U.S.E.D. Datum. Period of record, 1938 to date. Staff gage only, 1938 to 1941. Records published in reporta of Department of Water Resources. Highest observed stage, 54.0 feet, June 13, 1938. Formerly presented as atation number 89 in Flood Flows and Stagea series of reports.

TABLE 329

SAN JOAQUIN RIVER AT ORAYSON
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	27.6	27.4	27.4	28.2	29.1	28.4	28.7	29.9	17	27.6	27.4	28.3	29.0	30.2	27.8	28.5	30.4
2	27.6	27.4	27.4	28.2	29.1	28.1	28.5	31.4	18	27.5	27.4	28.2	28.6	30.1	27.6	28.7	30.1
3	27.5	27.2	27.4	28.1	29.2	28.0	28.3	32.8	19	27.4	27.5	28.2	28.4	30.1	27.1	29.0	29.5
4	27.5	27.3	27.4	28.0	29.4	28.0	28.2	33.8	20	27.3	27.5	28.2	28.2	30.1	29.8	29.4	29.1
5	27.5	27.5	27.4	28.0	29.8	27.7	28.2	34.3	21	27.4	27.6	28.1	28.1	30.2	30.5	30.1	28.9
6	27.5	27.5	27.4	28.0	31.3	27.6	28.3	34.6	22	27.5	27.6	28.1	28.1	30.2	30.7	30.6	28.9
7	27.4	27.5	27.4	27.9	32.4	27.7	28.2	34.7	23	27.4	27.5	28.1	28.1	30.3	30.6	31.0	28.8
8	27.4	27.6	27.3	27.9	32.6	27.6	28.1	34.3	24	27.4	27.4	28.2	28.4	30.3	30.3	31.0	28.8
9	27.4	27.5	27.8	27.9	32.6	27.6	28.0	33.9	25	27.5	27.4	28.1	28.8	30.1	30.2	31.1	28.5
10	27.4	27.4	28.0	28.4	31.3	27.5	28.0	34.2	26	27.5	27.4	28.2	29.1	29.6	30.0	31.0	28.3
11	27.3	27.4	28.1	28.5	30.8	27.5	27.9	33.6	27	27.5	27.3	28.2	28.9	29.2	29.4	30.6	28.1
12	27.4	27.4	28.2	28.8	30.5	27.4	28.1	32.2	28	27.5	27.4	28.2	29.0	28.9	29.6	30.1	27.9
13	27.5	27.4	28.4	29.9	30.4	27.4	28.2	31.2	29	27.5	27.4	28.2	-	28.8	29.2	29.5	27.9
14	27.5	27.4	28.4	30.6	30.3	27.7	28.0	30.7	30	27.4	27.4	28.2	-	28.7	29.0	29.2	27.9
15	27.6	27.4	28.4	30.8	30.2	28.2	28.2	30.5	31	-	27.4	28.2	-	28.5	-	29.0	-
16	27.6	27.4	28.4	29.9	30.2	27.9	28.3	30.4									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
2-15-57	10:00 AM	30.9	5-25-57	2:00 PM	31.1			
2-25-57	11:00 PM	29.4	6-7-57	6:00 AM	34.7			
3-8-57	2:00 AM	32.6						
4-22-57	10:00 AM	30.8						

STATION DESCRIPTION

San Joaquin River at Grayson

Department of Water Resources, City of San Francisco, Modesto and Turlock Irrigation Districts station on left bank of Laird Slough channel of San Joaquin River on Westley-Modesto highway bridge. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Station rated for combined flow of both San Joaquin River channels up to a stage of 42.5 feet. Period of record, 1934 to date. Records published in reports of Department of Water Resources. Maximum recorded stage, 46.2 feet, March 10, 1938. Formerly presented as station number 90 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 330

DRY CREEK NEAR MODESTO
Flood Period November 1956 through June 1957

Daily mean gage height in feet																	
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	69.3	69.1	69.0	69.0	69.7	69.5	69.5	69.4	17	69.1	69.0	69.1	68.9	69.2	69.3	69.6	69.5
2	69.2	69.1	69.0	69.0	70.7	69.6	69.6	69.4	18	69.1	69.0	69.0	69.0	69.1	69.2	69.8	69.4
3	69.2	69.1	69.0	68.9	71.2	69.5	69.5	69.4	19	69.1	69.0	69.0	68.9	69.2	69.3	70.5	69.5
4	69.2	69.2	69.1	68.9	70.0	69.5	69.6	69.4	20	69.1	69.0	69.0	68.9	69.2	69.2	71.6	69.4
5	69.2	69.2	69.4	68.9	69.6	69.4	69.5	69.2	21	69.1	69.0	69.2	68.9	69.1	69.1	70.7	69.4
6	69.2	69.2	69.2	68.9	*75.4	69.5	69.5	69.1	22	69.1	69.0	69.2	68.9	69.1	69.0	69.9	69.5
7	69.1	69.1	69.1	69.0	*72.0	69.4	69.4	69.1	23	69.1	69.0	69.1	69.0	69.0	69.0	69.7	69.5
8	69.1	69.1	69.1	68.9	70.2	69.5	69.4	69.2	24	69.1	69.0	69.1	69.3	69.0	69.0	69.4	69.5
9	69.2	69.1	69.0	68.9	69.7	69.6	69.4	69.3	25	69.1	69.0	69.0	70.4	69.1	69.0	69.4	69.4
10	69.1	69.0	69.0	69.0	69.6	69.6	69.6	69.6	26	69.1	*69.5	69.0	70.0	69.4	69.2	69.5	69.5
11	69.1	69.0	69.0	68.9	69.5	69.7	69.7	69.7	27	69.1	69.3	69.0	69.8	69.3	69.4	69.6	69.5
12	69.1	69.0	69.0	69.0	69.5	69.7	69.6	69.4	28	69.1	69.1	69.0	69.5	69.4	69.4	69.5	69.5
13	69.1	69.0	69.1	68.9	69.3	69.7	69.5	69.4	29	69.1	69.0	69.0	-	69.4	69.5	69.4	69.5
14	69.1	69.1	69.2	68.9	69.2	70.0	69.6	69.4	30	69.1	69.0	69.0	-	69.5	69.6	69.4	69.5
15	69.1	69.0	69.1	68.9	69.2	70.2	69.6	69.5	31	-	69.0	69.0	-	69.4	-	69.4	-
16	69.1	69.0	69.1	68.9	69.2	69.6	69.6	69.4									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
12-26-56	4:00 PM	69.8	5-20-57	3:15 PM	71.7			
2-25-57	8:00 AM	70.6						
3-3-57	4:00 AM	71.8						
3-6-57	8:00 AM	77.0						

STATION DESCRIPTION

Dry Creek near Modeato

Department of Water Resources station near right bank of Dry Creek on upstream side of Claus Road Bridge, about seven miles east of Modesto. Continuous water stage recorder and staff gage with zero set on U.S.G.S. Datum. Period of record 1941 to date. Records 1950 to date published in reports of Department of Water Resources. Prior records in files of Department of Water Resources. Maximum recorded stage, 88.04 feet, December 23, 1955. Formerly published as Dry Creek near Modeato (Claus Road), station number 91 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 331

TUOLUMNE RIVER AT LA GRANGE BRIDGE
Flood Period November 1956 through June 1957

Daily mean gage height in feet																	
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	169.0	*170.1	169.1	169.0	*167.8	*168.0	167.1	167.1	17	169.1	*170.4	169.0	*168.1	168.8	167.2	167.1	167.1
2	169.0	*169.6	*169.6	168.7	*168.3	167.2	167.1	167.1	18	169.0	*170.5	169.1	*168.5	*169.6	167.1	167.1	167.1
3	169.0	*170.3	*169.4	168.5	*168.2	167.2	167.1	167.1	19	*169.6	*170.4	168.9	*168.2	*170.1	167.1	167.1	167.1
4	169.0	*170.5	*169.5	168.8	*168.7	167.2	167.1	*167.9	20	*170.7	*170.6	168.6	*167.2	171.5	167.2	167.1	167.1
5	169.0	*170.4	*169.2	168.9	*169.0	167.2	167.1	168.9	21	*170.7	*170.6	168.7	167.2	171.2	167.2	*168.1	167.1
6	169.0	*170.4	*169.1	168.9	168.9	167.2	167.1	169.6	22	*170.2	*170.2	169.1	167.2	171.1	167.2	*169.1	167.1
7	169.0	*170.5	*169.3	168.9	168.8	167.2	167.1	171.0	23	*170.5	*169.7	169.0	167.2	170.6	*168.2	169.4	167.1
8	169.0	*170.0	*169.1	168.9	*168.6	167.1	167.1	172.5	24	*170.4	*169.9	169.0	167.1	170.4	168.9	169.3	167.1
9	169.0	*169.5	*169.3	168.7	*167.3	167.2	167.1	172.8	25	*170.1	*169.1	169.1	*167.3	*169.7	168.9	169.2	167.1
10	169.0	*170.2	*169.0	168.4	167.2	167.2	167.1	170.3	26	*170.6	*169.6	169.0	*167.5	168.9	168.9	168.9	167.1
11	169.0	*170.1	*169.2	168.7	*168.1	167.2	167.1	167.4	27	*170.4	*169.7	168.5	*167.2	168.9	*167.3	168.9	167.1
12	169.0	*169.9	168.9	168.8	*168.9	167.2	167.1	167.2	28	*170.4	*169.9	168.8	167.1	168.9	167.2	168.8	167.1
13	169.1	*170.0	*168.2	168.9	*169.0	167.2	167.1	167.2	29	*170.3	*169.6	169.0	-	*168.9	167.1	*167.2	167.1
14	169.1	*170.1	*168.5	168.6	168.9	167.2	167.1	167.4	30	*170.4	*169.3	169.1	-	168.9	167.2	167.1	167.1
15	169.0	*170.0	168.9	168.8	*169.1	167.1	*167.4	167.4	31	-	*169.7	168.9	-	168.9	-	167.1	-
16	169.1	*169.5	168.9	168.5	168.9	167.1	167.1	167.1									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
12-17-56	6:30 PM	171.6	4-26-57	3:00 PM	168.9			
1-22-57	8:00 PM	170.4	6-9-57	7:00 AM	172.9			
3-18-57	4:00 PM	171.9						
3-20-57	9:00 AM	171.9						

STATION DESCRIPTION

Tuolumne River at La Grange Bridge

Department of Water Resources and Turlock Irrigation District station near left bank of Tuolumne River on downstream side of bridge immediately north of La Grange. Weekly water stage recorder and staff gage set on U.S.G.S. Datum. Station rated for low and medium flows only. Period of record 1940 to date. Records published in reports of Department of Water Resources. Maximum recorded stage, 188.0 feet, December 8, 1950. Formerly presented as station number 92 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 332

TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	109.5	*110.7	*109.9	109.6	*108.4	*109.3	108.2	108.2	17	109.7	*110.7	109.6	*108.8	109.5	108.2	108.2	108.2
2	109.6	*110.3	*110.0	*109.6	*109.2	108.4	108.2	108.2	18	109.7	*111.0	109.6	*109.2	*110.0	108.3	108.3	108.2
3	109.6	*110.7	*110.1	109.2	*109.1	108.3	108.2	108.2	19	*109.8	*111.0	*109.7	*109.4	*110.6	108.2	108.3	108.2
4	109.6	*110.0	*110.1	*109.3	*109.2	108.3	108.2	*103.3	20	*111.1	*111.1	*109.4	*108.5	111.8	108.2	108.3	108.2
5	109.6	*110.9	*109.8	109.6	*109.8	108.2	108.2	109.5	21	*111.2	*111.1	*109.3	108.3	111.6	108.3	*108.5	108.2
6	109.6	*110.8	*109.7	109.6	109.7	108.2	108.2	*109.7	22	*110.8	*110.8	*109.6	108.3	111.6	108.3	109.6	108.2
7	109.6	*111.0	*110.0	109.6	109.5	108.2	108.2	111.2	23	*110.8	*110.4	*109.7	108.3	111.1	*108.5	110.0	108.2
8	109.6	*110.6	*109.7	109.6	*109.3	108.2	108.2	112.5	24	*111.0	*110.5	109.6	108.4	110.9	109.5	109.9	108.2
9	109.6	*110.2	*109.8	109.5	*109.0	108.2	108.2	113.1	25	*110.7	*109.9	109.6	108.3	*110.5	109.5	109.8	108.2
10	109.6	*110.5	*109.8	109.2	108.4	108.2	108.2	*111.5	26	*111.0	*110.0	109.5	*108.4	109.6	109.5	109.7	108.2
11	109.6	*110.7	*109.8	*109.3	*108.6	108.2	108.2	*109.1	27	*110.9	*110.3	*109.4	*108.6	109.6	*108.8	109.5	108.2
12	109.6	*110.5	*109.7	109.5	109.5	108.2	108.2	108.4	28	*110.8	*110.5	109.4	108.3	109.5	108.3	109.5	108.2
13	109.7	*110.5	*109.3	109.5	109.6	108.2	108.2	108.3	29	*110.8	*110.2	109.6	-	109.5	108.3	108.8	108.2
14	109.7	*110.6	*109.0	109.3	109.6	108.3	108.2	108.3	30	*110.9	*110.0	109.6	-	109.5	108.2	108.3	108.2
15	109.6	*110.5	109.6	109.4	*109.5	108.2	108.2	*108.4	31	-	*110.2	*109.6	-	109.5	-	108.2	-
16	109.6	*110.2	109.6	109.4	*109.7	108.2	*108.4	*108.3									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
11-21-56	11:00 PM	111.8						
12-20-56	11:00 PM	111.8						
3-5-57	12:15 AM	110.5						
6-9-57	11:00 AM	113.1						

STATION DESCRIPTION

Tuolumne River at Roberts Ferry Bridge

Department of Water Resources and Modeato Irrigation District station on the center pier of bridge over Tuolumne River, 7.5 miles east of Waterford. Weekly water stage recorder and staff gage set on U.S.G.S. Datum. Station rated for low and medium flows only. Period of record, 1936 to date. Prior to April 2, 1940, zero of gage was set at elevation 106.20 U.S.G.S. Datum. Records published in reports of Department of Water Resources. Maximum recorded stage 128.2 feet, U.S.G.S. Datum, December 8, 1950. Formerly presented as atation number 93 in Flood Flows and Stages aeries of reports.

Note: No measurements are included; for corresponding dischargea see stream flow table for this station.

TABLE 333

TUOLUMNE RIVER AT HICKMAN BRIDGE
Flood Period November 195[illegible] through June 196[illegible]

Daily mean gage height in feet																		
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	74.2	*75.6	*74.8	74.2	73.0	74.[illegible]	72.9	72.8	17	74.3	*75.4	74.[illegible]	73.5	74.[illegible]	72.9	72.9	74.7
2	74.3	*75.2	74.6	74.3	*73.6	72.[illegible]	72.9	72.8	18	74.4	*75.9	74.[illegible]	73.7	74.[illegible]	72.9	72.9	72.[illegible]
3	74.3	*75.3	*74.9	73.8	73.7	73.[illegible]	72.9	72.8	19	74.3	*75.9	74.4	74.1	75.7	72.9	72.9	72.6
4	74.3	*75.9	*74.9	73.9	*73.7	73.0	72.9	72.8	20	*75.8	*76.[illegible]	74.[illegible]	73.[illegible]	76.5	72.9	72.9	72.6
5	74.3	*75.8	*74.6	74.[illegible]	74.5	72.[illegible]	72.8	*73.8	21	*76.1	*76.[illegible]	73.[illegible]	73.0	76.6	72.9	72.9	72.6
6	74.3	*75.7	*74.5	74.2	74.4	72.9	72.8	*74.1	22	*75.9	*75.7	74.2	73.0	76.6	72.9	74.0	72.6
7	74.3	*75.9	74.6	74.[illegible]	74.1	72.[illegible]	72.8	75.9	23	*75.6	*75.3	74.4	73.0	76.1	72.9	74.6	72.6
8	74.3	*75.5	74.5	74.[illegible]	*73.9	72.9	72.9	77.3	24	*75.9	*75.3	74.2	73.0	75.8	74.0	74.6	72.6
9	74.3	*75.2	74.4	74.2	*73.8	72.9	72.9	78.3	25	*75.6	*74.8	74.3	73.0	75.5	74.1	74.4	74.[illegible]
10	74.3	*75.2	*74.6	73.8	73.1	72.[illegible]	72.9	*76.9	26	*75.7	*74.6	74.4	73.0	74.[illegible]	74.1	74.4	72.6
11	74.3	*75.5	74.4	73.8	73.0	72.9	72.9	*74.0	27	*75.9	*75.1	74.1	73.2	74.2	*73.7	74.1	72.6
12	74.2	*75.3	*74.5	74.2	74.0	72.9	72.9	73.0	28	*75.7	*75.2	73.9	73.0	74.2	73.0	74.1	72.6
13	74.3	*75.4	74.1	74.2	74.2	72.9	72.8	72.8	29	*75.7	*75.1	74.2	-	74.2	72.9	*73.6	72.6
14	74.4	*75.5	*73.5	74.0	74.2	72.9	72.8	72.8	30	*75.8	*74.8	74.2	-	74.2	72.9	72.9	72.6
15	74.3	*75.4	74.2	74.0	74.2	72.9	72.8	72.8	31	-	*74.9	74.4	-	74.2	-	72.8	-
16	74.3	*75.1	74.2	74.0	74.4	72.9	73.0	72.8									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
12-5-56	3:00 AM	76.8	3-19-57	1:00 AM	77.0	6-9-57	4:00 PM	78.3
12-21-56	3:00 AM	76.9	3-20-57	5:30 PM	77.2			
1-23-57	4:00 AM	75.2	4-26-57	1:00 PM	74.2			
2-5-57	3:30 AM	75.2	5-24-57	3:00 PM	75.0			

STATION DESCRIPTION

Tuolumne River at Hickman Bridge

Department of Water Resources and Modesto Irrigation District station near left bank of Tuolumne River on downstream side of Hickman-Waterford road bridge. Weekly water stage recorder and staff gage set on U.S.G.S. Datum. Period of record 1936 to date. Records published in reports of Department of Water Resources. Maximum recorced stage and discharge, 96.2 feet and 59,000 second-feet, December 8, 1950. Formerly published as Tuolumne River at Hickman-Waterford Bridge, station number 94 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 334

TUOLUMNE RIVER AT MODESTO
Flood Period November 1950 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	41.9	42.7	42.3	42.0	41.4	42.0	41.5	41.5	17	42.0	42.3	42.0	41.8	42.1	41.4	41.5	41.4
2	42.0	42.6	42.0	42.0	41.6	41.7	41.5	41.5	18	42.0	42.8	42.0	41.6	42.0	41.5	41.5	41.4
3	42.0	42.3	42.3	41.8	42.0	41.5	41.5	41.4	19	42.0	42.8	42.0	41.8	42.9	41.4	41.7	41.4
4	42.0	42.7	42.2	41.7	41.8	41.4	41.5	41.4	20	42.4	42.8	42.0	41.7	43.2	41.4	41.8	41.3
5	42.0	42.8	42.3	41.9	42.0	41.4	41.5	41.6	21	42.9	43.0	41.8	41.4	43.6	41.4	41.6	41.4
6	42.0	42.8	42.1	41.9	42.8	41.4	41.5	42.0	22	43.0	42.9	41.9	41.4	43.6	41.4	41.8	41.4
7	41.9	42.7	42.0	41.9	42.4	41.4	41.4	42.6	23	42.5	42.7	42.0	41.4	43.2	41.4	42.2	41.4
8	42.0	42.7	42.2	41.9	42.1	41.4	41.4	43.6	24	42.8	42.4	42.0	41.4	42.9	41.6	42.3	41.4
9	42.0	42.5	42.0	41.9	42.0	41.4	41.4	45.8	25	42.8	42.4	42.0	41.5	42.8	41.9	42.2	41.3
10	42.0	42.3	42.1	41.8	41.7	41.4	41.5	45.6	26	42.6	42.1	42.0	41.5	42.3	42.0	42.2	41.3
11	42.0	42.6	42.0	41.7	41.5	41.4	41.5	42.4	27	42.9	42.3	42.0	41.5	42.0	42.0	42.1	41.3
12	42.0	42.6	42.1	41.9	41.7	41.5	41.5	41.7	28	42.7	42.4	41.8	41.5	42.0	41.6	42.1	41.3
13	42.0	42.5	42.0	41.9	42.0	41.4	41.4	41.5	29	42.7	42.4	41.9	-	42.0	41.5	42.0	41.4
14	42.0	42.5	41.7	41.9	42.1	41.5	41.5	41.5	30	42.7	42.3	41.9	-	42.0	41.4	41.6	41.4
15	42.0	42.6	41.8	41.8	42.1	41.6	41.5	41.5	31	-	42.1	42.0	-	42.0	-	41.5	-
16	42.0	42.5	42.0	41.9	42.2	41.5	41.5	41.5									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
6-10-57	6:00 AM	46.3						

STATION DESCRIPTION

Tuolumne River at Modesto

U. S. Geological Survey, Department of Water Resources, and Modesto Irrigation District station near left bank of Tuolumne River at Highway 99 bridge at Modesto. Continuous water stage recorder and staff gage set on U.S.G.S. Datum. Period of record, 1940 to date. Prior to July 11, 1947, this station was located about one-half mile downstream on the old highway bridge. Records published in reports of Department of Water Resources. Maximum recorded stage and discharge, 69.2 feet and 57,000 second-feet, December 9, 1950. Formerly presented as station number 95 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 33

TUOLUMNE RIVER AT TUOLUMNE CITY
Flood Period November 1956 through June 1957

Daily mean gage height in feet																
Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	29.1	31.5	30.[illegible]	29.2	27.6	29.2	27.4	27.[illegible]	17	29.3	30.3	29.1	[illegible]	29.[illegible]	[illegible]	27.4	27.[illegible]
2	29.3	31.2	29.8	29.1	27.7	28.8	27.4	27.5	18	29.3	31.2	29.1	[illegible]	28.9	27.7	27.[illegible]	27.[illegible]
3	29.3	30.6	29.9	29.0	28.7	28.1	27.4	27.6	19	29.3	31.[illegible]	29.2	[illegible]	30.1	[illegible]	27.7	27.4
4	29.2	31.2	30.0	28.6	28.6	27.8	27.4	27.7	20	29.7	31.[illegible]	29.2	[illegible]	31.1	27.3	[illegible]	27.4
5	29.2	31.7	30.1	28.7	28.8	27.6	27.4	27.9	21	31.5	31.[illegible]	28.9	27.[illegible]	32.7	28.[illegible]	[illegible]	27.[illegible]
6	29.2	31.6	29.7	29.0	30.2	27.5	27.4	29.0	22	31.9	31.[illegible]	28.7	27.6	32.[illegible]	27.[illegible]	[illegible].0	27.[illegible]
7	29.3	31.5	29.4	29.0	30.3	27.4	27.[illegible]	29.8	23	31.2	31.[illegible]	29.8	27.5	32.4	27.3	29.0	27.4
8	29.3	31.6	29.7	29.0	29.5	27.4	27.2	31.2	24	31.4	30.6	29.[illegible]	27.4	31.7	27.4	29.[illegible]	27.4
9	29.3	31.0	29.4	29.0	21.1	27.5	27.3	33.8	25	31.6	30.7	29.1	27.6	31.5	28.4	29.6	27.4
10	29.3	30.4	29.5	28.9	NR	27.5	27.[illegible]	35.2	26	31.1	29.8	29.2	27.7	30.7	28.7	29.4	27.[illegible]
11	29.3	31.0	29.4	28.5	NR	27.5	27.4	35.1	27	31.7	30.2	29.2	27.7	29.[illegible]	28.8	29.3	27.[illegible]
12	29.2	31.1	29.5	28.6	NR	27.6	27.4	29.4	28	31.6	30.4	28.9	27.7	29.3	28.2	29.0	27.[illegible]
13	29.2	30.8	29.4	28.9	NR	27.5	27.4	28.4	29	31.6	30.6	28.8	-	29.2	27.6	29.0	27.[illegible]
14	29.3	30.9	28.9	28.9	29.0	27.6	27.[illegible]	28.0	30	31.4	30.3	29.0	-	29.2	27.5	28.3	27.[illegible]
15	29.3	31.0	28.6	28.7	29.0	27.9	27.4	27.8	31	-	29.[illegible]	29.1	-	29.2	-	27.[illegible]	-
16	29.3	30.9	29.1	28.7	29.1	27.7	27.3	27.8									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
11-22-56	3:30 PM	32.5	6-10-57	11:00 AM	35.3			
12-21-56	3:30 PM	32.6						
3-6-57	8:00 PM	31.3						
3-21-57	9:00 AM	32.8						

STATION DESCRIPTION

Tuolumne River at Tuolumne City

Department of Water Resources, City of San Francisco, Modesto and Turlock Irrigation Districts station on pier of Tuolumne City Bridge near right bank of Tuolumne River, 3.3 miles upstream from San Joaquin River. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Station rated for low and medium stages. High stages affected by backwater from San Joaquin River. Period of record, 1934 to date. Records published in reports of Department of Water Resources. Maximum stage 46.65 feet, December 9, 1950. Formerly presented as station number 96 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 336

SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE
Flood Period November 195[illegible] through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	19.5	20.9	20.0	19.9	19.5	19.6	18.8	20.1	17	19.7	20.3	19.9	20.1	20.9	18.3	18.7	20.4
2	19.6	20.8	20.0	19.8	19.5	19.4	18.6	20.7	18	19.7	20.6	19.9	19.6	29.8	18.8	19.0	20.1
3	19.7	20.4	19.7	19.8	19.7	18.8	18.6	21.7	19	19.6	21.0	19.9	19.4	21.0	19.1	19.3	19.6
4	19.6	20.5	20.0	19.5	20.1	18.5	18.5	22.5	20	19.6	21.0	20.0	19.5	21.8	19.3	20.5	19.2
5	19.6	21.0	20.0	19.4	20.2	18.2	18.6	22.9	21	20.6	21.1	19.8	19.2	22.5	19.8	22.3	18.9
6	19.6	21.0	19.9	19.6	21.4	18.0	18.5	23.6	22	21.1	21.1	19.6	18.9	22.7	20.1	23.1	18.9
7	19.6	21.0	19.7	19.6	22.6	17.9	18.4	24.6	23	21.0	21.0	19.8	18.9	22.6	20.0	23.0	19.0
8	19.6	21.0	19.8	19.6	22.3	17.9	18.2	25.2	24	20.8	20.6	19.9	18.9	22.3	19.8	22.5	18.8
9	19.6	20.8	19.8	19.6	22.0	17.9	18.2	25.7	25	21.0	20.4	19.8	19.1	22.0	20.0	22.4	18.6
10	19.6	20.4	20.0	19.8	21.4	17.8	18.3	26.2	26	20.8	20.1	19.8	19.6	21.5	20.1	22.2	18.4
11	19.6	20.4	20.0	19.7	20.7	17.8	18.4	25.3	27	20.9	20.0	19.9	19.4	20.7	20.0	21.7	18.2
12	19.6	20.7	20.0	19.6	20.4	17.8	18.4	23.1	28	21.0	20.2	19.7	19.4	20.2	19.8	21.2	18.1
13	19.6	20.6	20.2	20.3	20.7	17.8	18.6	21.4	29	20.9	20.3	19.6	-	20.0	19.3	21.0	18.1
14	19.7	20.5	20.0	20.8	20.9	18.0	18.4	20.6	30	20.8	20.3	19.8	-	19.9	19.0	20.6	18.2
15	19.7	20.6	19.6	20.9	20.9	18.5	18.5	20.3	31	-	20.1	19.8	-	19.8	-	20.1	-
16	19.7	20.6	19.9	20.6	20.8	18.4	18.6	20.4									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
11-21-56	9:00 PM	21.4	2-15-57	1:00 AM	20.9	6-10-57	6:00 PM	26.3
11-22-56	10:00 PM	21.4	3-7-57	7:00 AM	22.7			
11-27-56	10:00 PM	21.3	3-21-57	7:30 PM	22.8			
1-13-57	5:00 AM	20.3	5-22-57	7:00 PM	23.2			

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

San Joaquin River at Maze Road Bridge

Department of Water Resources station near left bank of San Joaquin River on the downstream side of the Maze Road Bridge. Continuous water stage recorder and staff gage set on U.S.E.D. Datum. Period of record, 1943 to date. Higheat recorded stage, 39.75 feet, December 9, 1950. Formerly presented as station number 97 in Flood Flows and Stages series of reports.

TABLE 337

STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	1.4	2.4	2.2	1.2	1.7	1.9	1.6	5.0	17	2.9	2.4	2.8	1.4	3.3	1.5	2.2	3.4
2	1.8	2.4	2.2	1.2	2.3	1.8	1.6	5.6	18	2.9	2.4	2.8	1.3	3.2	1.7	2.8	2.6
3	1.9	2.4	2.2	1.2	1.6	1.7	1.7	6.5	19	2.9	2.3	2.4	1.3	3.2	2.0	7.2	1.8
4	2.8	2.3	2.2	1.1	2.0	1.6	1.7	6.5	20	2.9	2.2	2.1	1.4	3.2	2.0	9.9	2.2
5	2.8	2.3	2.1	1.1	5.1	1.6	1.6	7.7	21	2.9	2.1	1.6	1.4	3.2	1.8	9.4	3.7
6	2.8	2.3	2.2	1.2	3.3	1.6	1.6	9.3	22	2.9	2.5	1.4	1.4	2.2	1.6	7.3	3.4
7	2.8	2.8	2.2	1.2	2.2	1.5	1.7	7.9	23	2.9	2.1	1.3	1.6	2.9	1.6	6.1	2.1
8	2.8	2.4	2.2	1.2	2.0	1.5	3.9	7.3	24	2.9	1.9	1.3	1.8	3.0	1.8	6.0	2.1
9	2.9	2.4	2.2	1.2	1.9	1.5	3.9	6.8	25	2.4	1.9	1.2	1.8	2.9	1.6	5.4	2.7
10	2.8	2.4	2.2	1.2	1.9	1.5	NO RECORD	6.4	26	2.2	2.0	1.2	1.5	2.7	1.5	4.8	2.4
11	2.8	2.4	2.2	1.1	2.7	1.5		5.1	27	1.9	2.2	1.3	1.4	2.6	1.5	4.8	2.1
12	2.8	2.4	2.3	1.2	3.0	1.5		2.8	28	1.8	2.3	1.2	1.4	2.4	1.5	5.4	1.8
13	2.4	2.8	2.3	1.4	3.9	1.5		2.0	29	2.2	2.3	1.2	-	1.7	1.5	5.6	2.8
14	2.8	2.8	2.5	1.4	3.4	1.8		3.5	30	2.4	2.2	1.2	-	1.5	1.8	5.3	2.7
15	2.8	2.5	2.5	1.4	3.3	1.8		4.5	31	-	2.2	1.2	-	1.5	-	4.8	-
16	2.8	2.3	2.8	1.4	3.3	1.7	2.2	4.2									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
1-16-57	7:00 AM	3.1	3-13-57	3:30 AM	5.2	6-29-57	7:00 PM	3.2
1-18-57	7:00 AM	3.2	5-8-57	2:00 PM	4.0			
3-2-57	6:30 AM	3.6	5-20-57	11:00 AM	10.0			
3-5-57	4:00 AM	5.8	6-6-57	10:30 AM	9.6			

STATION DESCRIPTION

Stanislaus River at Orange Blossom Bridge

Department of Water Resources and Oakdale Irrigation District station near right bank of Stanislaus River on downstream side of bridge, 5.7 miles upstream from Oakdale. Continuous water stage recorder and staff gage at an altitude of about 125 feet. Period of record, 1939 to date. Records published in reports of Department of Water Resources. Maximum recorded stage and discharge, 30.05 feet and 52,000 second-feet, November 21, 1950. Maximum observed stage 31.8 feet, December 23, 1955. Formerly presented as station number 98 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 338

STANISLAUS RIVER AT RIVERBANK
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	73.4	74.6	74.2	73.2	73.4	73.4	73.5	77.0	17	75.2	74.5	75.0	73.3	75.6	73.4	74.2	75.9
2	73.6	74.6	74.2	73.2	*74.1	73.6	73.4	77.5	18	75.2	74.6	75.1	73.2	*75.5	73.3	*74.5	75.2
3	73.5	74.6	74.2	73.2	73.7	73.4	73.5	78.2	19	75.2	74.6	74.6	73.2	*75.5	*73.8	*77.8	*74.0
4	*74.7	74.6	74.2	73.2	73.0	73.4	73.4	78.6	20	75.2	74.4	74.3	73.2	*75.4	73.6	81.6	73.5
5	75.1	74.5	74.2	73.2	*76.3	73.3	73.3	79.0	21	75.2	74.2	73.9	73.2	*75.5	73.7	82.0	*75.4
6	75.1	74.6	74.2	73.2	*76.4	73.3	73.3	81.2	22	75.2	74.4	73.5	73.3	*74.5	73.3	80.1	75.9
7	75.1	74.9	74.2	73.2	74.5	73.3	73.3	80.5	23	75.2	74.4	73.4	73.3	*74.8	73.2	78.4	*78.4
8	75.1	74.9	74.3	73.2	73.9	73.2	*75.0	79.5	24	75.2	74.0	73.3	73.6	*75.3	73.2	78.3	73.8
9	75.2	74.6	74.2	73.2	73.8	73.2	76.0	79.1	25	74.8	73.9	73.3	73.5	*75.1	73.5	77.8	*74.6
10	75.2	74.6	74.3	73.2	73.7	73.2	75.8	78.6	26	74.4	74.0	73.3	73.5	*74.7	73.2	77.3	74.5
11	75.1	74.6	74.3	73.2	*74.6	73.2	*74.5	77.8	27	73.9	74.1	73.3	73.3	*74.4	73.2	77.0	74.1
12	75.1	74.5	74.3	73.2	*75.0	73.2	73.8	*75.9	28	73.7	74.3	73.3	73.3	74.6	73.2	77.4	73.8
13	74.6	75.0	74.4	73.2	*75.5	73.2	74.5	*74.4	29	73.8	74.4	73.2	-	74.1	73.2	77.6	*74.0
14	75.0	75.2	74.6	73.3	76.0	*73.6	74.8	*74.9	30	74.4	74.3	73.2	-	73.7	73.2	77.5	*75.1
15	75.1	75.0	74.6	73.2	*75.4	74.0	74.9	76.5	31	-	74.4	73.2	-	73.3	-	77.1	-
16	75.1	74.6	74.9	73.2	75.5	73.4	74.4	76.6									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
12-13-56	12:00 Noon	75.2	6-15-57	10:00 PM	76.7			
1-16-57	3:00 PM	75.3						
3-18-57	3:00 PM	76.0						
5-21-57	1:00 AM	82.2						

STATION DESCRIPTION

Stanislaus River at Riverbank

Department of Water Resources and South San Joaquin and Oakdale Irrigation Districts station near left bank of Stanislaus River on downstream side of Burneyville Bridge at Riverbank. Continuous water stage recorder and staff gage set on U.S.G.S. Datum. Period of record, 1940 to date. Records published in reports of Department of Water Resources. Maximum recorded stage and diacharge 103.22 feet and 86,500 second-feet, December 23, 1955. Formerly presented as station number 99 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 339

STANISLAUS RIVER AT RIPON
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	38.6	39.0	38.6	37.6	37.6	38.1	37.5	43.2	17	40.0	39.1	39.5	37.5	40.5	37.9	39.0	42.1
2	38.4	39.1	38.6	37.6	37.9	38.1	37.7	43.7	18	40.0	39.1	39.6	37.5	40.4	38.3	39.1	41.1
3	38.4	39.1	38.6	37.5	37.5	38.1	37.8	44.6	19	40.0	39.0	39.6	37.5	40.3	38.1	41.9	40.0
4	38.5	39.1	38.6	37.5	37.9	37.8	37.9	45.7	20	40.0	38.9	39.1	37.4	40.3	38.4	48.5	39.2
5	39.6	39.0	38.6	37.5	40.0	37.9	37.7	45.8	21	40.0	38.8	38.6	37.5	40.3	38.3	51.0	39.5
6	39.8	39.0	38.5	37.5	42.3	37.7	37.7	48.3	22	40.0	38.6	38.2	37.5	40.1	38.0	50.8	41.4
7	39.8	39.0	38.5	37.5	40.1	37.7	37.5	50.2	23	40.0	39.1	38.0	37.5	39.0	37.8	47.4	40.7
8	39.9	39.5	38.5	37.5	39.0	37.7	37.8	48.4	24	40.0	38.7	37.8	37.6	39.9	37.7	45.8	39.2
9	40.0	39.2	38.6	37.5	38.5	37.7	40.5	47.4	25	39.9	38.4	37.8	37.8	40.0	37.7	45.6	39.1
10	40.0	39.1	38.6	37.5	38.3	37.6	40.9	46.7	26	39.4	38.3	37.8	37.7	39.7	37.8	44.4	39.8
11	40.0	39.0	38.6	37.5	38.3	37.5	40.0	45.7	27	39.0	38.4	37.7	37.6	39.7	37.7	43.8	39.3
12	39.9	39.0	38.7	37.4	39.3	37.5	38.8	43.3	28	38.6	38.5	37.7	37.5	39.5	37.6	43.6	38.9
13	39.8	39.1	38.8	37.4	40.0	37.6	38.6	41.1	29	38.4	38.7	37.6	-	39.2	37.5	44.3	38.5
14	39.5	39.7	38.8	37.5	40.8	37.8	39.1	40.1	30	38.7	38.8	37.6	-	38.7	37.4	44.3	39.8
15	39.9	39.8	39.0	37.5	40.5	38.3	39.6	41.8	31	-	38.7	37.6	-	38.3	-	43.8	-
16	39.9	39.4	39.2	37.5	40.4	38.0	39.5	42.7									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
3-6-59	4:00 PM	42.7						
3-15-57	1:00 AM	41.2						
5-22-57	3:00 AM	51.5						
6-7-57	10:00 AM	50.5						

STATION DESCRIPTION

Stanislaus River at Ripon

U. S. Geological Survey, Department of Water Resources, City of San Francisco, and Modesto and South San Joaquin Irrigation Districts station on left bank of Stanislaus River downstream from railroad and U. S. Highway 99 bridges. Continuous water stage recorder and staff gage set on U.S.G.S. Datum. Period of record, 1940 to date. Discharges published in reports of U. S. Geological Survey; stages in reports of Department of Water Resources. Maximum recorded stage and discharge, 63.25 feet and 62,500 second-feet, December 24, 1955. Flood of February 12, 1938, reached a stage of 64.4 feet as determined by flood marks. Formerly presented as station number 100 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 340

SAN JOAQUIN RIVER NEAR VERNALIS
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	8.0	9.0	8.2	7.8	7.6	7.8	6.8	9.2	17	8.3	*8.6	8.2	8.2	9.4	6.6	7.3	9.4
2	8.0	9.0	8.2	7.8	7.6	7.5	6.7	9.7	18	8.3	*8.6	8.3	7.7	9.3	7.1	7.5	8.9
3	7.9	8.8	8.0	7.8	8.0	7.0	6.7	10.7	19	8.2	*9.2	8.3	7.5	9.3	7.5	8.0	8.3
4	7.9	8.7	8.2	7.6	8.3	6.7	6.7	11.5	20	8.2	*9.2	8.3	7.6	10.1	7.7	*9.8	7.8
5	8.0	9.1	8.1	7.5	8.2	6.6	6.7	11.9	21	8.9	*9.3	8.1	7.3	10.6	8.1	11.9	7.5
6	8.2	9.2	8.1	7.6	9.7	6.2	6.7	12.6	22	9.4	*9.3	7.8	7.1	10.8	8.3	12.7	7.7
7	8.2	9.1	7.9	7.7	11.1	6.1	6.6	13.8	23	9.3	*9.2	7.9	7.1	10.7	8.2	12.4	8.0
8	8.2	9.2	7.9	7.7	10.5	6.1	6.4	14.3	24	9.1	*8.8	8.0	7.1	10.4	8.0	11.7	7.6
9	8.2	9.1	8.0	7.6	10.1	6.1	6.6	14.5	25	9.4	*8.5	7.9	7.2	10.2	8.0	11.6	7.2
10	8.2	*8.6	8.0	7.8	9.6	6.0	7.1	14.9	26	9.2	8.3	7.9	7.7	9.8	8.0	11.2	7.0
11	8.2	*8.6	8.1	7.8	8.9	6.0	7.3	14.2	27	9.1	8.0	7.9	7.6	9.0	8.0	10.7	7.0
12	8.2	*8.8	8.1	7.6	8.7	6.0	7.1	12.1	28	9.2	8.3	7.8	*7.6	8.5	7.8	10.2	6.8
13	8.2	*8.8	8.3	8.2	8.9	6.0	7.1	10.2	29	9.0	8.4	7.6	-	8.3	7.3	10.1	6.7
14	8.2	*8.7	8.2	8.7	9.3	6.1	7.0	9.2	30	8.9	8.5	7.8	-	8.1	7.0	9.8	6.8
15	8.2	*8.8	7.9	8.9	9.5	6.6	7.1	9.0	31	-	8.3	7.8	-	7.9	-	9.4	-
16	8.3	*8.8	8.1	8.7	9.3	6.7	7.3	9.4									

* Estimated

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
11-22-56	11:30 PM	9.6	6-10-57	3:00 PM	15.0			
3-7-57	7:00 AM	11.2						
3-21-57	8:00 PM	11.0						
5-22-57	9:00 PM	12.9						

STATION DESCRIPTION

San Joaquin River near Vernalis

U. S. Geological Survey and Department of Water Resources station on left bank of San Joaquin River at Durham Ferry Bridge, 3.4 miles northeast of Vernalis. Continuous water stage recorder and staff gage with zero set at elevation 8.4 feet, U.S.E.D. Datum since April 1931. Department of Water Resources maintains an automatic short wave radio water stage broadcaster at this station. Period of record, 1922 to date with the exception of the seasons of 1922 and 1925 to 1929 for which there are low flow records only. Discharges published in U.S.G.S. Water Supply Papers; flood stages in reports of Department of Water Resources. Maximum recorded stage and discharge, 26.89 feet and 50,900 second-feet, December 25, 1955. Maximum stage 27.75 feet, December 9, 1950, corresponding to a flow of about 79,000 second-feet. Formerly presented as station number 101 in Flood Flows and Stages series of reports.

Note: No measurements are included; for corresponding discharges see stream flow table for this station.

TABLE 341

SAN JOAQUIN RIVER AT MOSSDALE BRIDGE
Flood Period November 1956 through June 1957

Daily mean gage height in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.3	2.7	2.3	2.0	2.7	2.2	2.2	3.3	17	2.2	2.6	2.3	2.6	3.3	1.8	2.5	2.8
2	2.2	2.9	2.4	2.1	2.6	1.8	2.2	3.3	18	2.4	2.4	2.3	2.3	3.3	2.0	2.4	2.5
3	2.2	2.8	2.3	1.9	2.3	1.6	2.0	3.6	19	2.5	2.6	2.2	2.1	3.3	1.8	2.7	2.2
4	2.3	2.8	2.3	1.7	2.4	1.5	2.0	3.9	20	2.3	2.6	2.6	2.1	3.6	2.1	2.8	2.0
5	2.2	3.0	2.1	1.5	2.5	1.4	2.1	4.4	21	2.3	2.7	2.2	2.0	3.7	2.2	4.0	1.8
6	2.1	3.0	2.0	1.6	2.9	1.8	2.5	4.6	22	2.7	2.5	2.0	2.0	3.6	2.1	4.8	1.7
7	2.2	2.6	1.8	1.8	3.7	1.4	2.1	5.5	23	2.7	2.3	2.0	2.3	3.5	2.0	4.9	2.0
8	2.1	2.2	2.0	1.9	3.8	1.5	2.0	6.1	24	2.6	2.1	2.1	2.5	3.3	1.9	4.6	2.1
9	2.0	2.1	1.9	1.7	3.8	1.5	2.0	6.4	25	2.5	2.2	2.1	2.5	3.2	1.8	4.4	2.1
10	1.9	2.0	1.9	1.8	3.4	1.4	2.2	6.9	26	2.5	2.0	2.3	2.4	3.1	1.8	4.2	2.3
11	1.9	2.0	2.1	2.0	3.1	1.3	2.3	6.8	27	2.4	2.1	2.2	2.5	2.7	1.9	4.0	2.4
12	2.1	2.2	2.2	2.0	3.1	1.3	2.3	5.6	28	2.6	2.0	2.2	2.6	2.4	2.0	4.0	2.6
13	2.2	2.3	3.0	2.2	3.0	1.2	2.4	4.1	29	2.6	2.2	2.1	-	2.4	2.2	4.0	2.7
14	2.2	2.3	2.8	2.5	3.0	1.5	2.4	3.3	30	2.6	2.4	2.1	-	2.3	2.5	3.8	2.5
15	2.0	2.5	2.5	2.7	3.4	1.5	2.5	3.0	31	-	2.4	1.9	-	2.2	-	3.5	-
16	2.0	2.6	2.4	2.8	3.4	1.7	2.5	2.9									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
11-18-56	7:40 PM	3.8	3-8-57	12:00 Noon	4.7	6-11-57	8:00 AM	7.5
12-4-56	8:40 PM	4.2	4-30-57	9:30 AM	3.9			
1-13-57	5:00 PM	4.7	5-23-57	5:00 AM	5.6			
2-23-57	3:00 PM	4.4	6-10-57	7:40 AM	7.3			

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

San Joaquin River at Mossdale Bridge

Department of Water Resources station on right bank of San Joaquin River immediately downstream from Mossdale Bridge on U. S. Highway 50. Continuous water stage recorder and staff gage set with zero at elevation 5.16 feet, U.S.E.D. Datum, prior to April 21, 1943, and at 3.27 feet, U.S.E.D. Datum and 0.30 feet, U.S.G.S. Datum, subsequent to that date. Periods of record, 1920 to date. Records published in reports of Department of Water Resources. Maximum recorded stage and combined flow in San Joaquin River and through Paradise Cut, 24.4 feet and 70,000 second-feet, December 10, 1950. Weather Bureau gage near this station, zero set at 1.94 feet, U.S.O.S. Datum. Formerly presented as station number 102 in Flood Flows and Stages series of reports.

TABLE 342

SAN JOAQUIN RIVER AT RINDGE PUMP
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.4 -0.6	3.6 -0.7	3.4 -0.8	2.9 -0.8	3.9 0.4	3.3 -0.4	3.9 -0.4	4.1 -0.2	17	3.3 -1.0	3.7 -0.8	3.3 -0.8	3.3 -0.1	3.8 0.2	3.7 -0.6	3.9 -0.2	2.8 -1.0
2	3.3 -0.6	3.7 -0.6	3.3 -0.8	2.7 -0.6	3.6 0.6	2.9 -0.6	4.2 -0.4	3.9 -0.3	18	3.7 -0.9	3.6 -0.9	3.1 -0.9	3.4 -0.2	3.9 0.2	3.8 -0.5	3.7 -0.1	3.0 -0.7
3	3.3 -0.7	3.7 -0.6	3.3 -0.8	2.5 -0.7	3.3 0.3	3.1 -0.7	3.7 -0.6	3.6 -0.4	19	3.4 -0.6	3.3 -1.0	2.7 -0.9	3.4 -0.1	4.0 0.2	3.4 -0.6	3.5 -0.2	3.4 -0.3
4	3.5 -0.8	3.9 -0.5	2.9 -0.6	2.4 -0.8	3.4 0.2	3.2 -0.8	3.7 -0.7	3.5 -0.5	20	3.4 -1.0	3.3 -1.1	3.3 -0.6	3.5 -0.3	4.0 0.2	3.2 -0.7	3.2 -0.4	3.4 0.1
5	3.2 -0.8	3.7 -0.4	2.6 -0.8	2.4 -0.8	3.5 0.2	3.2 -0.8	3.6 -0.3	3.5 -0.1	21	3.2 -1.1	3.1 -0.9	3.1 -0.3	3.6 -0.3	3.6 -0.3	2.8 -0.8	3.2 0.1	3.5 0.0
6	3.0 -1.0	3.1 -0.5	2.4 -0.9	2.6 -0.6	3.6 0.4	3.7 -0.2	4.0 0.2	3.7 0.0	22	3.1 -1.1	2.4 -1.0	3.1 -0.6	3.5 -0.5	2.2 -1.0	2.6 -0.7	3.5 0.1	3.5 -0.3
7	2.9 -1.1	2.5 -0.8	2.6 -0.9	3.2 -0.3	3.7 0.3	3.0 -1.1	3.5 -0.3	3.8 0.1	23	2.8 -1.0	2.4 -1.2	3.2 -0.6	4.6 0.2	2.6 -1.1	2.7 -0.7	3.6 0.3	3.5 -0.5
8	2.5 -1.0	2.1 -1.2	3.0 -0.6	3.3 -0.7	3.9 0.6	3.3 -0.5	3.4 0.0	4.1 0.2	24	2.5 -1.0	2.6 -1.2	3.3 -0.7	4.3 0.5	2.5 -0.8	2.7 -0.6	3.7 0.5	3.9 -0.4
9	2.3 -1.1	2.0 -1.5	2.8 -0.6	3.2 -1.0	4.0 0.5	3.1 -0.6	3.6 0.1	4.4 0.1	25	2.6 -1.0	2.7 -1.0	3.4 -0.7	3.6 -0.2	2.8 -0.7	2.8 -0.4	3.8 0.1	4.0 -0.4
10	2.4 -1.0	2.3 -1.3	3.1 -0.7	3.4 -0.9	3.7 0.0	3.0 -0.5	3.7 0.1	4.3 -0.1	26	2.8 -0.8	2.9 -1.0	3.5 -0.7	3.7 0.0	2.7 -0.6	2.9 -0.5	3.7 -0.2	4.4 -0.2
11	2.6 -0.9	2.7 -0.8	3.5 -0.5	3.4 -0.9	3.7 -0.2	3.0 -0.4	4.0 0.0	4.3 -0.2	27	3.0 -0.6	3.0 -1.1	3.3 -0.8	3.7 0.1	2.7 -0.6	3.0 -0.5	3.9 -0.2	4.5 -0.1
12	2.9 -0.6	3.0 -0.6	3.7 -0.5	3.4 -0.9	4.1 0.0	3.1 -0.4	4.0 -0.1	4.3 -0.1	28	3.3 -0.6	3.2 -1.0	3.3 -0.8	3.8 0.1	2.9 -0.3	3.3 -0.5	4.4 0.5	4.7 0.1
13	3.1 -0.3	3.2 -0.7	4.6 0.0	3.6 -0.9	3.7 -0.2	3.1 -0.7	4.0 -0.2	4.3 -0.3	29	3.4 -0.7	3.3 -0.9	3.3 -0.8	-	3.0 -0.1	3.6 -0.3	4.6 0.3	4.8 0.2
14	2.8 -0.7	3.3 -0.8	4.1 -0.5	3.5 -0.6	3.7 0.0	3.8 -0.2	4.2 -0.2	4.0 -0.4	30	3.5 -0.7	3.6 -0.9	3.1 -0.8	-	3.1 -0.3	4.1 0.1	4.5 0.0	4.4 0.1
15	2.9 -0.9	3.5 -0.9	3.9 -0.5	3.3 -0.5	4.0 0.0	3.5 -0.7	4.1 -0.2	3.8 -0.5	31	-	3.5 -0.8	2.8 -0.9	-	3.0 -0.2	-	4.3 -0.3	-
16	3.1 -1.0	3.7 -0.9	3.6 -0.7	3.4 -0.5	3.8 0.4	3.7 -0.6	4.0 -0.3	3.2 -0.9									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

San Joaquin River at Rindge Pump

Department of Water Resources station on right bank of San Joaquin River (Stockton Deep Water Channel) at junction with Fourteen Mile Slough at southeast corner of Rindge Tract. Continuous water stage recorder and staff gage with zero eet at elevation 3.0 feet, U.S.E.D. Datum and 0.00 feet, U.S.G.S. Datum, subsequent to August 5, 1940, and at minus 2.2 feet, U.S.E.D. Datum prior to that date. Period of record, 1939 to date. Records published in reports of Department of Water Resources. Maximum recorded stage,* 11.3 feet (9.1 feet, U.S.E.D. Datum), February 28, 1940. Maximum observed stage from high water mark, 7.1 feet (10.1 feet, U.S.E.D. Datum) December 1955. Formerly presented as station number 103 in Flood Flows and Stages series of reports.

* Record not complete in December 1955.

TABLE 343

SAN JOAQUIN RIVER AT VENICE ISLAND
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	NR NR	7.3 3.2	7.0 3.0	6.4 2.9	7.4 4.2	6.8 3.3	7.4 3.4	7.7 3.5	17	6.9 2.9	7.2 3.0	6.8 3.0	6.9 3.7	7.4 4.0	7.2 3.2	7.5 3.6	6.4 2.8
2	NR NR	7.3 3.2	6.8 3.0	6.3 3.2	7.1 4.3	6.5 3.1	7.7 3.4	7.5 3.5	18	7.3 3.0	7.2 2.9	6.6 2.9	6.9 3.6	7.5 4.0	7.3 3.3	7.3 3.7	6.6 3.1
3	6.9 3.1	7.3 3.2	6.9 3.0	6.0 3.1	6.9 4.1	6.7 3.0	6.2 3.2	7.1 3.3	19	7.0 3.2	6.9 2.8	6.3 2.9	7.0 3.6	7.6 4.0	6.9 3.2	7.1 3.6	7.0 3.4
4	7.1 3.1	7.5 3.3	6.5 3.2	6.0 3.0	6.9 4.0	6.8 2.9	7.2 3.1	7.1 3.2	20	7.0 2.9	6.8 2.7	6.9 3.2	7.0 3.4	7.6 4.0	6.8 3.1	6.8 3.4	7.1 3.8
5	6.8 3.1	7.3 3.4	6.1 3.0	6.0 2.9	7.0 4.0	6.8 2.9	7.2 3.4	7.1 3.7	21	6.8 2.8	6.6 2.9	6.6 3.5	7.1 3.4	7.2 3.4	6.4 3.0	6.8 3.8	7.1 3.8
6	6.6 2.9	6.7 3.3	5.9 2.9	6.2 3.2	7.1 4.2	7.2 3.6	7.6 3.9	7.2 3.7	22	6.7 2.8	6.0 2.8	6.6 3.2	7.0 3.3	6.3 2.8	6.2 3.0	7.1 3.8	7.0 3.4
7	6.5 2.8	6.0 3.0	6.1 2.9	6.7 3.5	7.2 4.0	6.5 2.7	7.0 3.5	7.3 3.9	23	6.4 2.8	5.9 2.6	6.8 3.2	8.1 4.0	6.1 2.8	6.3 3.1	7.1 4.1	7.1 3.3
8	6.1 2.8	5.7 2.6	6.6 3.2	6.9 3.1	7.4 4.4	6.8 3.3	7.0 3.8	7.7 3.9	24	6.1 2.8	6.1 2.6	6.9 3.1	7.8 4.3	6.0 2.9	6.2 3.2	7.3 4.3	7.5 3.4
9	5.9 2.8	5.5 2.3	6.4 3.2	6.7 2.8	7.6 4.2	6.6 3.2	7.1 3.9	7.9 3.9	25	6.2 2.8	6.2 2.8	7.0 3.1	7.1 3.6	6.3 3.1	6.3 3.4	7.4 3.8	7.6 3.4
10	6.0 2.8	5.8 2.5	6.6 3.1	7.0 2.9	7.2 3.7	6.6 3.3	7.3 3.9	7.8 3.6	26	6.4 3.0	6.4 2.7	7.1 3.1	7.2 3.7	6.3 3.2	6.4 3.3	7.3 3.7	7.9 3.6
11	6.2 2.9	6.3 3.0	7.1 3.3	7.0 2.9	7.2 3.6	6.5 3.4	7.5 3.8	7.9 3.6	27	6.6 3.2	6.6 2.8	6.9 3.0	7.2 3.7	6.2 3.2	6.6 3.3	7.5 3.7	8.1 3.7
12	6.4 3.3	6.6 3.2	7.3 3.3	7.0 3.0	7.6 3.8	6.7 3.4	7.6 3.7	7.8 3.6	28	6.9 3.3	6.7 2.8	6.9 3.0	7.4 3.8	6.4 3.5	6.8 3.3	7.9 4.2	8.3 3.9
13	6.7 3.5	6.7 3.0	8.2 3.8	7.1 3.0	7.2 3.5	6.7 3.2	7.6 3.6	7.9 3.5	29	7.0 3.1	6.9 2.9	6.8 3.0	-	6.6 3.7	7.1 3.5	8.2 4.0	8.3 4.0
14	6.5 3.1	6.8 2.9	7.6 3.3	7.1 3.2	7.2 3.8	7.3 3.6	7.7 3.6	7.6 3.4	30	7.1 3.2	7.2 2.9	6.7 3.0	-	6.6 3.5	7.7 3.8	6.8 3.8	7.9 3.9
15	6.5 2.9	7.0 2.9	7.4 3.3	6.9 3.3	7.6 4.2	7.0 3.1	7.6 3.5	7.3 3.2	31	-	7.0 3.0	6.4 2.9	-	6.5 3.5	-	7.8 3.5	-
16	6.7 2.9	7.2 2.9	7.2 3.1	6.9 3.4	7.4 4.2	7.2 3.2	7.5 3.5	6.8 2.9									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

San Joaquin River at Venice Island

U. S. Department of the Army station on Little Connection Slough on Empire Island about one mile south of Venice Island Ferry. Continuous water stage recorder and staff gage set on old U.S.E.D. Datum and minus 3.45 feet, U.S.G.S. Datum. Period of record 1927 to date. Records published in reports of Department of Water Resources. Maximum recorded stage 10.7 feet, December 26, 1955. Old station on Venice Island destroyed by boat during November 1951. Formerly presented as station number 104 in Flood Flows and Stages series of reports.

TABLE 344

MIDDLE RIVER AT BORDEN HIGHWAY
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.3 0.0	3.7 -0.2	3.4 -0.4	2.8 -0.5	3.7 0.7	3.1 0.0	3.7 -0.2	4.0 0.0	17	3.3 -0.5	3.6 -0.4	3.2 -0.4	3.2 0.3	3.7 0.5	3.4 -0.5	3.8 0.0	2.7 -0.8
2	3.3 -0.2	3.7 -0.2	3.2 -0.4	2.7 -0.3	3.3 0.7	2.8 -0.3	3.9 -0.2	3.8 0.0	18	3.7 -0.4	3.6 -0.5	3.0 -0.4	3.2 0.2	3.8 0.5	3.6 -0.3	3.6 0.0	2.9 -0.5
3	3.3 -0.3	3.7 -0.1	3.3 -0.4	2.4 -0.3	3.1 0.4	2.9 -0.5	3.6 -0.4	3.5 -0.2	19	3.5 0.0	3.3 -0.5	2.7 -0.4	3.3 0.2	3.9 0.5	3.2 -0.4	3.5 0.0	2.9 -0.3
4	3.5 -0.4	3.9 0.0	2.9 -0.3	2.4 -0.4	3.1 0.3	3.0 -0.7	3.5 -0.5	3.1 -0.3	20	3.4 -0.5	3.2 -0.6	3.3 -0.2	3.3 0.0	4.0 0.5	3.2 -0.4	3.1 -0.2	3.2 0.1
5	3.2 -0.3	3.8 0.0	2.6 -0.5	2.4 -0.5	3.3 0.4	3.0 -0.7	3.4 -0.1	3.4 0.1	21	3.3 -0.6	3.1 -0.5	3.1 0.1	3.4 0.0	3.6 0.0	2.8 -0.5	3.2 0.2	3.3 0.1
6	3.0 -0.6	3.2 -0.1	2.4 -0.6	2.6 -0.3	3.5 0.6	3.4 0.0	3.8 0.3	3.5 0.1	22	3.2 -0.6	2.3 -0.5	3.0 -0.3	3.3 -0.3	2.8 -0.5	2.6 -0.5	3.5 0.3	3.2 -0.1
7	2.9 -0.6	2.5 -0.4	2.5 -0.6	3.1 -0.1	3.6 0.5	2.8 -0.9	3.3 -0.1	3.7 0.3	23	2.9 -0.5	2.3 -0.9	3.2 -0.2	4.4 0.5	2.6 -0.7	2.6 -0.5	3.6 0.6	3.3 -0.3
8	2.6 -0.6	2.1 -0.9	3.0 -0.3	3.2 -0.5	3.8 0.8	3.1 -0.4	3.2 0.2	4.0 0.4	24	2.6 -0.6	2.5 -0.9	3.3 -0.3	4.1 0.8	2.5 -0.6	2.6 -0.4	3.7 0.7	3.8 -0.3
9	2.4 -0.7	2.0 -1.1	2.8 -0.3	3.0 -0.8	4.0 0.7	2.8 -0.5	3.3 0.2	4.3 0.3	25	2.6 -0.6	2.6 -0.7	3.4 -0.3	3.4 0.1	2.7 -0.4	2.6 -0.3	3.8 0.4	3.8 -0.2
10	2.4 -0.8	2.3 -1.0	3.0 -0.4	3.2 -0.7	3.7 0.3	2.8 -0.3	3.5 0.3	4.2 0.1	26	2.8 -0.5	2.8 -0.7	3.6 -0.3	3.6 0.1	2.6 -0.3	2.7 -0.2	3.7 0.2	4.2 0.0
11	2.6 -0.6	2.8 -0.5	3.5 -0.2	3.3 -0.5	3.6 0.1	2.7 -0.2	3.7 0.2	4.3 0.1	27	3.1 -0.2	3.0 -0.7	3.3 -0.3	3.6 0.3	2.5 -0.4	2.9 -0.2	3.9 0.2	4.3 0.0
12	2.9 -0.2	3.0 -0.3	3.6 -0.2	3.3 -0.5	4.0 0.3	2.8 -0.3	3.8 0.1	4.2 0.1	28	3.3 -0.2	3.1 -0.7	3.3 -0.4	3.7 0.3	2.7 0.0	3.1 -0.2	4.3 0.7	4.5 0.2
13	3.1 0.0	3.2 -0.4	4.5 -0.2	3.5 -0.4	3.6 0.1	2.8 -0.5	3.8 0.0	4.2 0.0	29	3.4 -0.3	3.3 -0.6	3.3 -0.4	-	2.8 0.0	3.4 0.0	4.5 0.5	4.5 0.3
14	2.9 -0.3	3.3 -0.5	4.0 0.4	3.5 -0.2	3.5 0.1	3.3 -0.1	3.9 0.0	3.9 -0.2	30	3.5 -0.3	3.6 -0.5	3.1 -0.4	-	2.9 -0.1	3.9 0.2	4.3 0.3	4.1 0.3
15	2.9 -0.3	3.4 -0.5	3.8 0.0	3.3 0.0	3.8 0.4	3.2 -0.5	3.9 0.0	3.6 -0.4	31	-	3.4 -0.4	2.8 -0.5	-	2.8 -0.1	-	4.2 0.0	-
16	3.1 -0.5	3.6 -0.5	3.5 -0.2	3.3 0.0	3.7 0.7	3.4 -0.4	3.8 -0.1	3.1 -0.6									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	OHT	Discharge	Meas. By	Date	OHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Middle River at Borden Highway

Department of Water Resources station on left bank of Middle River adjacent to the downstream side of Borden Highway Bridge on Victoria Island. Continuous water stage recorder and staff gage with zero set at minus 4.10 feet, U.S.O.S. Datum, prior to March 5, 1943, and at 0.00 feet, U.S.O.S. Datum, and 3.15 feet, U.S.E.D. Datum, subsequent to that date. Period of record 1939 to date. Records in files of Department of Water Resources and published since 1944 in reports of that agency. Highest recorded stage, 7.2 feet (10.35 feet, U.S.E.D. Datum), December 26, 1955. Formerly presented as station number 105 in Flood Flows and Stages series of reports.

TABLE 345

OLD RIVER AT MANSION HOUSE
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.4 0.0	3.7 -0.2	3.4 -0.3	2.9 -0.4	3.8 0.8	3.2 0.0	3.9 -0.1	4.1 0.0	17	3.3 -0.5	3.7 -0.3	3.3 -0.3	3.3 0.3	3.8 0.6	3.6 -0.4	3.8 0.0	2.8 -0.7
2	3.3 -0.2	3.7 -0.2	3.3 -0.3	2.7 -0.2	3.4 0.8	2.9 -0.2	4.1 0.0	3.9 0.0	18	3.7 -0.4	3.6 -0.4	3.1 -0.4	3.3 0.2	3.8 0.5	3.7 -0.2	3.7 0.1	2.6 -0.4
3	3.3 -0.3	3.7 -0.2	3.4 -0.3	2.5 -0.3	3.2 0.5	3.0 -0.4	3.6 -0.3	3.5 -0.1	19	3.5 -0.1	3.3 -0.5	2.7 -0.4	3.4 0.2	4.0 0.5	3.2 -0.3	3.5 0.1	3.0 -0.2
4	3.4 -0.4	3.9 0.0	3.0 -0.2	2.4 -0.4	3.2 0.4	3.1 -0.6	3.6 -0.4	3.2 0.2	20	3.4 -0.5	3.3 -0.6	3.4 -0.2	3.4 0.0	4.0 0.5	3.2 -0.3	3.2 -0.1	3.3 0.2
5	3.2 -0.4	3.8 0.0	2.6 -0.4	2.4 -0.5	3.4 0.5	3.1 -0.6	3.6 -0.1	3.4 0.1	21	3.3 -0.6	3.1 -0.4	3.1 0.1	3.5 0.0	3.6 -0.1	2.8 -0.4	3.2 0.2	3.5 0.2
6	3.0 -0.5	3.2 -0.1	2.4 -0.5	2.7 -0.3	3.6 0.7	3.5 0.0	3.9 0.4	3.6 0.2	22	3.1 -0.6	2.5 -0.5	3.1 -0.2	3.4 -0.2	2.8 -0.6	2.7 -0.5	3.5 0.3	3.4 0.0
7	3.0 -0.6	2.5 -0.4	2.6 -0.5	3.2 0.0	3.7 0.6	2.9 -0.8	3.4 0.0	3.7 0.3	23	2.9 -0.5	2.4 -0.8	3.3 -0.2	4.5 0.6	2.6 -0.7	2.7 -0.4	3.5 0.6	3.5 -0.3
8	2.6 -0.6	2.2 -0.8	3.1 -0.2	3.3 -0.4	3.9 0.9	3.2 -0.3	3.3 0.2	4.1 0.4	24	2.5 -0.6	2.6 -0.8	3.4 -0.3	4.2 0.9	2.5 -0.6	2.7 -0.2	3.7 0.7	3.8 -0.2
9	2.4 -0.7	2.0 -1.1	2.9 -0.2	3.1 -0.8	4.1 0.7	3.0 -0.4	3.4 0.4	4.3 0.4	25	2.6 -0.6	2.7 -0.6	3.4 -0.3	3.5 0.2	2.7 -0.4	2.7 -0.2	3.8 0.4	3.9 0.1
10	2.1 -0.7	2.3 -1.0	3.1 -0.3	3.3 -0.6	3.7 0.3	2.9 -0.3	3.6 0.3	4.2 0.2	26	2.8 -0.5	2.9 -0.6	3.6 -0.2	3.6 0.3	2.7 -0.3	2.8 -0.1	3.7 0.2	4.3 0.0
11	2.6 -0.6	2.8 -0.5	3.6 0.0	3.4 -0.4	3.7 0.2	2.8 -0.2	3.8 0.3	4.3 0.2	27	3.1 -0.2	3.0 -0.6	3.3 -0.4	3.6 0.3	3.6 -0.3	3.0 -0.1	3.9 0.2	4.4 0.2
12	2.9 -0.2	3.0 -0.2	3.8 -0.1	3.4 -0.4	4.0 0.4	3.0 -0.2	3.9 0.1	4.2 0.2	28	3.3 -0.2	3.2 -0.6	3.4 -0.4	3.8 0.4	2.8 0.0	3.3 -0.1	4.3 0.7	4.6 0.3
13	3.1 0.1	3.2 -0.3	4.6 0.4	3.5 -0.4	3.6 0.1	2.9 -0.4	3.9 0.0	4.3 0.0	29	3.4 -0.2	3.3 -0.4	3.3 -0.4	-	2.9 0.1	3.6 0.1	4.5 0.5	4.7 0.5
14	2.9 -0.3	3.3 -0.4	4.1 0.4	3.5 -0.2	3.6 0.4	3.5 0.0	4.0 0.1	3.9 -0.1	30	3.5 -0.3	3.6 -0.4	3.1 -0.3	-	3.0 0.0	4.1 0.4	4.4 0.3	4.3 0.4
15	3.0 -0.5	3.5 -0.4	3.9 0.0	3.3 0.0	3.9 0.4	3.3 -0.4	4.0 0.0	3.7 -0.3	31	-	3.5 -0.3	2.9 -0.4	-	2.9 -0.1	-	4.2 0.0	-
16	3.1 -0.5	3.7 -0.5	3.6 -0.2	3.4 0.0	3.7 0.8	3.5 -0.3	3.9 0.0	3.2 -0.6									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
			NO MEASUREMENTS				

STATION DESCRIPTION

Old River at Mansion House

Department of Water Resources station on right bank of Old River at the site once occupied by "Mansion House" on Victoria Island. Continuous water stage recorder and staff gage set with zero at elevation 2.3 feet, C.S.E.D. Datum, prior to February 16, 1943, and at elevation 0.00 feet, U.S.C.S. Datum, and 3.15 feet, U.S.E.D. Datum, subsequent to that date. Period of record, 1939 to date. Records published in reports of Department of Water Resources. Maximum recorded stage 7.4 feet (10.55 feet, U.S.E.D. Datum), December 26, 1955. Formerly presented as station number 106 in Flood Flows and Stages series of reports.

TABLE 346

OLD RIVER NEAR ROCK SLOUGH
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.2 2.6	6.5 2.5	6.4 2.6	5.9 2.5	6.8 3.7	6.2 2.8	6.8 2.9	7.0 3.0	17	6.2 2.4	6.6 2.5	6.2 2.5	6.3 3.2	6.8 3.6	6.6 2.7	6.9 3.1	5.8 2.3
2	6.2 2.6	6.5 2.6	6.2 2.6	5.7 2.7	6.5 3.8	5.9 2.6	7.1 2.9	6.9 3.0	18	6.5 2.4	6.6 2.4	6.1 2.5	6.3 3.2	6.8 3.5	6.7 2.8	6.7 3.2	6.0 2.5
3	6.2 2.5	6.6 2.6	6.3 2.6	5.5 2.6	6.3 3.6	6.1 2.5	6.6 2.7	6.5 2.8	19	6.3 2.6	6.3 2.4	5.7 2.5	6.4 3.2	6.9 3.5	6.3 2.7	6.5 3.1	6.3 2.9
4	6.3 2.4	6.8 2.7	5.9 2.7	5.4 2.6	6.3 3.5	6.2 2.4	6.6 2.6	6.4 2.8	20	6.2 2.2	6.2 2.3	6.3 2.7	6.4 3.0	7.0 3.4	6.2 2.6	6.2 2.9	6.5 3.4
5	6.1 2.5	6.7 3.0	5.6 2.5	5.4 2.5	6.4 3.5	6.2 2.4	6.5 2.9	6.4 3.1	21	6.1 2.2	6.0 2.4	5.1 3.0	6.5 3.0	6.6 2.8	5.8 2.6	6.2 3.3	6.5 3.2
6	5.8 2.3	6.1 2.8	5.4 2.4	5.6 2.7	6.5 3.6	6.6 3.1	6.9 3.4	6.6 3.2	22	6.0 2.2	5.4 2.4	6.0 2.7	6.4 2.8	5.8 2.4	5.6 2.5	6.4 3.4	6.4 3.0
7	5.8 2.2	5.5 2.5	5.6 2.4	6.2 3.0	6.6 3.5	5.9 2.2	6.4 3.0	6.7 3.4	23	5.7 2.2	5.3 2.1	6.2 2.7	7.5 3.5	5.6 2.3	5.7 2.6	6.5 3.6	6.5 3.0
8	5.4 2.2	5.1 2.1	6.0 2.7	6.3 2.6	6.8 3.8	6.2 2.8	6.3 3.3	7.0 3.4	24	5.4 2.2	5.6 2.1	6.3 2.6	7.2 3.8	5.5 2.4	5.6 2.7	6.7 3.8	6.9 2.9
9	5.2 2.1	4.9 1.8	5.8 2.7	6.2 2.3	7.0 3.7	6.0 2.7	6.4 3.4	7.3 3.4	25	5.5 2.2	5.7 2.3	6.4 2.6	6.5 3.1	5.7 2.6	5.7 2.8	6.7 3.4	7.0 2.9
10	5.2 2.2	5.3 2.0	6.1 2.6	6.4 2.4	6.7 3.2	5.9 2.8	6.6 3.4	7.2 3.1	26	5.7 2.4	5.8 2.3	6.5 2.6	6.6 3.3	5.7 2.7	5.8 2.8	6.7 3.1	7.3 3.1
11	5.5 2.3	5.8 2.5	6.6 2.9	6.4 2.4	6.6 3.1	5.9 2.9	6.8 3.3	7.2 3.1	27	5.9 2.6	6.0 2.3	6.3 2.5	6.6 3.3	5.6 2.7	6.0 2.8	6.8 3.2	7.4 3.2
12	5.7 2.6	6.0 2.7	6.7 2.9	6.4 2.5	7.0 3.3	6.0 2.9	6.9 3.2	7.2 3.1	28	6.1 2.6	6.1 2.4	6.4 2.5	6.8 3.7	5.7 3.0	6.2 2.8	7.3 3.7	7.6 3.4
13	5.9 2.9	6.1 2.6	7.6 3.4	6.5 2.7	6.6 3.0	6.0 2.7	6.9 3.0	7.2 3.0	29	6.2 2.5	6.3 2.5	6.3 2.5	-	5.9 3.2	6.5 3.0	7.5 3.5	7.7 3.5
14	5.7 2.5	6.3 2.5	7.0 3.4	6.5 2.7	6.5 3.3	6.6 3.0	7.0 3.1	6.9 2.9	30	6.3 2.5	6.6 2.6	6.1 2.6	-	6.0 3.0	7.0 3.3	7.4 3.3	7.3 3.4
15	5.8 2.3	6.4 2.4	6.8 2.9	6.3 2.9	6.8 3.7	6.4 2.6	7.0 3.0	6.7 2.7	31	-	6.5 2.6	5.8 2.4	-	5.9 2.9	-	7.2 3.0	-
16	5.9 2.3	6.6 2.5	6.6 2.7	6.3 2.9	6.8 3.7	6.6 2.7	6.9 3.0	6.2 2.4									

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	OHT	Discharge	Meas. By	Date	OHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Old River near Rock Slough

Department of Water Resources station on left bank of Old River one mile north of Rock Slough on American Island (formerly Holland Tract). Continuous water stage recorder and staff gage with zero set at minus 3.0 feet, U.S.O.S. Datum, minus 3.3 feet, U.S. Bureau of Reclamation Datum, 0.6 foot, Holland Tract Datum, 0.98 foot, U.S.E.D. Old River Survey of 1936, and 0.00 foot, U.S.E.D. Datum, at head of Snodgrass Slough. Period of record, March 1, 1945 to date. Highest recorded stage, 10 feet, U.S.E.D. Datum, at head of Snodgrass Slough, December 26, 1955. Formerly presented as Station number 107 in Flood Flows and Stages series of reports.

TABLE 347

SAN JOAQUIN RIVER AT ANTIOCH
Flood Period November 1950 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.4 -1.2	3.6 -1.2	3.3 -1.4	2.8 -1.1	3.7 0.1	3.1 -1.0	3.8 -1.0	4.0 -1.0	17	3.3 -1.5	3.6 -1.6	3.3 -1.6	3.2 -0.7	3.9 -0.3	3.6 -1.2	3.7 -0.9	
2	3.3 -1.4	3.6 -1.2	3.1 -1.4	2.6 -1.2	3.4 -0.1	2.8 -1.3	4.0 -0.9	3.7 -1.1	18	3.7 -1.3	3.6 -1.7	3.1 -1.6	3.3 -0.7	3.9 -0.5	3.6 -1.1	3.5 -0.6	
3	3.3 -1.4	3.7 -1.1	3.2 -1.4	2.3 -1.2	3.2 -0.1	3.0 -1.3	3.5 -1.2	3.3 -1.1	19	3.3 -1.7	3.2 -1.7	2.7 -1.5	3.4 -0.6	4.0 -0.5	3.1 -1.2	3.3 -0.8	
4	3.4 -1.4	3.8 -1.0	2.8 -1.2	2.3 -1.2	3.3 -0.2	3.1 -1.4	3.3 -1.2	3.3 -1.1	20	3.3 -1.7	3.2 -1.8	3.4 -1.1	3.3 -0.7	3.9 -0.5	3.0 -1.1	3.0 -0.8	
5	3.1 -1.5	3.6 -1.0	2.3 -1.3	2.3 -1.2	3.3 -0.2	3.0 -1.4	3.4 -0.8	3.5 -0.8	21	3.2 -1.7	2.8 -1.6	3.0 -0.8	3.4 -0.7	3.3 -1.1	2.5 -1.2	3.2 -0.4	
6	2.8 -1.5	2.9 -1.0	2.2 -1.3	2.5 -0.9	3.3 -0.2	3.2 -0.9	3.5 -0.5	3.7 -0.6	22	3.0 -1.7	2.3 -1.7	3.0 -0.9	3.3 -0.9	2.4 -1.5	2.4 -1.2	3.2 -0.3	NO
7	2.6 -1.5	2.2 -1.3	2.5 -1.2	3.0 -0.6	3.3 -0.3	2.8 -1.6	3.2 -0.8	4.0 -0.4	23	2.6 -1.6	2.3 -1.8	3.2 -1.0	4.4 -0.2	2.2 -1.4	2.5 -1.1	3.5 0.0	RECORD
8	2.2 -1.4	1.9 -1.6	3.0 -0.8	3.2 -1.0	3.5 0.1	2.9 -1.1	3.4 -0.4	4.1 -0.5	24	2.4 -1.5	2.5 -1.7	3.2 -1.1	4.1 0.0	2.1 -1.3	2.5 -0.9	3.5 0.1	
9	2.1 -1.4	1.7 -1.8	2.7 -0.9	3.0 -1.4	3.7 -0.1	2.8 -1.2	3.6 -0.4	4.1 -0.6	25	2.5 -1.5	2.6 -1.4	3.2 -1.2	3.4 -0.7	2.4 -1.1	2.5 -0.8	3.5 -0.4	
10	2.2 -1.3	2.1 -1.5	2.9 -1.1	3.3 -1.4	3.3 -0.6	2.7 -1.1	3.6 -0.4	4.1 -0.9	26	2.8 -1.2	2.8 -1.5	3.3 -1.3	3.5 -0.6	2.4 -1.1	2.7 -0.8	3.5 -0.7	
11	2.4 -1.2	2.7 -0.9	3.5 -0.8	3.4 -1.5	3.3 -0.7	2.8 -1.0	3.9 -0.5		27	3.0 -1.0	2.9 -1.6	3.2 -1.4	3.5 -0.5	2.5 -1.1	2.9 -0.9	3.8 -0.7	
12	2.7 -0.9	2.8 -1.0	3.8 -0.9	3.4 -1.5	3.8 -0.7	3.0 -0.9	3.9 -0.7	NO	28	3.2 -1.1	3.1 -1.5	3.4 -1.4	3.7 -0.1	2.6 -0.7	3.1 -1.0	4.2 -0.4	
13	2.9 -0.8	3.1 -1.2	4.5 -0.6	3.6 -1.3	3.5 -1.0	3.1 -1.2	3.9 -0.8	RECORD	29	3.3 -1.2	3.2 -1.5	3.2 -1.3	-	2.8 -0.5	3.4 -0.8	4.3 -0.6	
14	2.8 -1.2	3.2 -1.4	4.0 -1.1	3.5 -1.1	3.6 -0.7	3.8 -0.9	4.1 -0.9		30	3.4 -1.3	3.5 -1.4	3.0 -1.5	-	2.5 -0.8	3.9 -0.7	4.2 -0.8	
15	2.8 -1.4	3.4 -1.6	3.9 -1.4	3.3 -1.1	3.9 -0.2	3.4 -1.3	3.9 -1.0		31	-	3.4 -1.4	2.8 -1.4	-	2.6 -0.8	-	4.2 -1.0	-
16	3.0 -1.5	3.6 -1.5	3.6 -1.5	3.2 -0.7	3.8 -0.3	3.5 -1.2	3.8 -1.0										

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
			NO CREST STAGES					

MEASUREMENTS

Date	GHT	Discharge	Meas. By	Date	GHT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

San Joaquin River at Antioch

Department of Water Resources station on left bank of San Joaquin River on the wharf of the City of Antioch water works. Continuous water stage recorder and staff gage set on U.S.E.D. Datum prior to August 23, 1940, and on U.S.C.S. Datum and zero at 2.99 feet, U.S.E.D. Datum, subsequent to that date. Period of record, 1929 to date. Records published in reports of Department of Water Resources. Maximum recorded stage, 6.2 feet (9.2 feet, U.S.E.D. Datum), December 26, 1955. Formerly presented as station number 108 in Flood Flows and Stages series of reports.

TABLE 348

SUISUN BAY AT BENICIA ARSENAL
Flood Period November 1956 through June 1957

Daily maximum and minimum tidal stages in feet

Date	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.7	3.8		2.8	3.5	3.1	3.9	3.9
	-2.7	-2.8		-2.2	-1.7	-2.5	-2.3	-2.9
2	3.5	3.8		2.6	3.2	2.8	4.1	3.6
	-3.1	-2.7		-2.3	-1.7	-2.8	-2.3	-2.8
3	3.6	3.8		2.4	3.0	3.1	3.6	3.2
	-3.0	-2.7		-2.2	-1.4	-2.8	-2.7	-2.7
4	3.6	3.9		2.4	3.2	3.1	3.5	3.3
	-3.0	-2.4		-2.0	-1.4	-2.7	-2.5	-2.5
5	3.2	3.5		2.4	3.2	3.0	3.4	3.4
	-3.1	-2.3		-1.6	-1.6	-2.7	-2.0	-2.0
6	2.8	2.9		2.7	3.1	3.0	3.3	3.7
	-2.9	-2.5		-1.6	-1.7	-2.4	-1.9	-1.5
7	2.6	2.3		3.0	3.0	2.8	3.4	4.0
	-2.6	-2.7		-1.3	-1.9	-2.7	-1.9	-1.7
8	2.2	2.0		3.2	3.2	2.8	3.6	4.1
	-2.4	-2.7		-1.0	-1.4	-2.3	-1.4	-1.9
9	2.2	1.8		3.0	3.4	2.8	3.9	4.2
	-2.4	-2.1		-2.5	-1.8	-2.6	-1.4	-2.2
10	2.2	2.3		3.4	3.0	3.0	4.1	4.2
	-2.1	-2.1		-2.6	-2.3	-2.4	-1.4	-2.6
11	2.5	2.8		3.5	3.2	3.3	4.1	4.2
	-1.8	-1.4		-3.0	-2.6	-2.2	-1.8	-2.7
12	2.7	3.0		3.6	3.6	3.3	4.1	4.0
	-1.6	-1.8		-3.1	-2.8	-2.0	-2.2	-2.8
13	3.0	3.2		3.8	3.5	3.4	4.2	4.0
	-1.7	-2.3		-2.8	-3.0	-2.5	-2.3	-2.8
14	2.9	3.4		3.8	3.7	4.4	4.3	3.7
	-2.2	-2.7		-2.7	-2.6	-2.4	-2.5	-2.8
15	3.0	3.6		3.6	4.0	3.7	4.0	3.4
	-2.7	-3.0		-2.5	-1.9	-2.9	-2.7	-2.8
16	3.2	3.9		3.3	3.8	3.8	3.8	2.8
	-3.0	-3.1		-2.1	-2.0	-2.6	-2.7	-2.8
17	3.5	3.9		3.4	4.1	3.8	3.7	2.6
	-3.1	-3.4		-1.8	-1.9	-2.6	-2.4	-2.4
18	3.8	3.9		3.5	4.1	3.8	3.6	2.8
	-3.1	-3.4		-1.6	-2.2	-2.6	-1.7	-1.9
19	3.6	3.6		3.7	4.1	3.1	3.2	3.0
	-3.4	-3.5		-1.7	-2.1	-2.5	-2.0	-1.3
20	3.5			3.5	3.9	2.9	2.9	3.2
	-3.4			-1.7	-2.2	-2.3	-1.7	-0.9
21	3.4			3.6	3.2	2.4	2.8	3.2
	-3.3			-1.7	-2.6	-2.2	-1.5	-1.0
22	3.1			3.3	2.3	2.4	3.0	3.3
	-3.0			-1.9	-2.7	-2.1	-1.1	-1.6
23	2.7			4.3	2.1	2.5	3.2	3.7
	-3.0			-1.2	-2.5	-1.9	-1.0	-1.9
24	2.5			4.0	2.0	2.6	3.2	4.0
	-2.8			-1.1	-2.4	-1.7	-1.0	-2.1
25	2.8			3.3	2.2	2.7	3.3	4.2
	-2.6			-2.1	-2.4	-1.5	-1.9	-2.2
26	3.0			3.4	2.4	2.7	3.7	4.4
	-2.2			-2.1	-2.3	-1.8	-2.3	-2.3
27	3.3			3.4	2.6	3.0	3.7	4.4
	-2.0			-2.1	-2.3	-2.0	-2.4	-2.3
28	3.5			3.5	2.6	3.3	4.0	4.6
	-2.3			-1.7	-2.0	-2.2	-2.5	-2.2
29	3.6			-	2.9	3.6	4.1	4.5
	-2.7				-1.6	-2.1	-2.7	-2.3
30	3.7			-	2.9	3.8	4.1	4.1
	-2.8				-2.0	-2.1	-2.8	-2.4
31	-			-	3.0	-	4.0	-
					-1.9		-2.9	

NO RECORD — Jan. 1 through Dec. 19; NO RECORD — Jan. 22 through Jun. 30

CREST STAGES

Date	Time	Stage	Date	Time	Stage	Date	Time	Stage
NO CREST STAGES								

MEASUREMENTS

Date	GMT	Discharge	Meas. By	Date	GMT	Discharge	Meas. By
NO MEASUREMENTS							

STATION DESCRIPTION

Suisun Bay at Benicia Arsenal

Department of Water Resources station on inshore side of Benicia Arsenal wharf at lower end of Suisun Bay. Period of record, intermittent from 1929 to 1940; continuous from 1940 to date. Prior to April 19, 1940, staff gage and weekly recorder set with zero at minus 2.21 feet, U.S.G.S. Datum. Continuous recorder and staff gage set April 19, 1940, with zero at minus 5.00 feet, U.S.G.S. Datum; reset October 26, 1942, with zero on U.S.G.S. Datum, 3.05 feet, U.S.E.D. Datum, at Collinsville and 3.56 feet above mean lower low water at Presidio, San Francisco. Highest recorded stage, 5.7 feet (8.75 feet, U.S.E.D. Datum, at Collinsville, and 9.26 feet above mean lower low water at Presidio), December 26, 1955. Formerly presented as station number 109 in Flood Flows and Stages series of reports.

LAHONTON AREA

LAHONTAN AREA

Introduction

The water resources of the Lahontan Area as a whole are greatly deficient with respect to the potential development of this region; however, sufficient water resources exist in a few stream basins to supply their ultimate needs. It is anticipated that the amount of stream flow information, as reported herein, will be increased in subsequent issues of this bulletin to provide the data for planning future development in these local basins.

Geographically the Lahontan Area is the most extensive of the hydrographic areas (see Plate 1). Lying along almost the entire California-Nevada border, the Lahontan Area extends from the Oregon border to the New York Mountains, within 40 miles of the Colorado River. It includes all the drainage basins of California lying east of the Warner Mountains, the Sierra Nevada, the Tehachapi Mountains, the Portal Ridge, the San Gabriel Mountains, and the San Bernardino Mountains. It does not include areas draining into the Salton Sea and the Colorado River. All of the principal streams of the area head on the eastern slopes of the Sierra Nevada or on the San Bernardino Mountains and flow into inland lakes or sinks in California or Nevada.

Tabular Information

On the following page are the data for two gaging stations, which represent the information available for the 1957 water year in the Lahontan Area.

TABLE 349

PINE CREEK NEAR SUSANVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1956 To September, 1957											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	*0	*1.8	0	*0	*0		90	17	8.8			
2	*0	*1.6	0	*0	*0		101	19	5.4			
3	*0	*1.4	0	*0	*0		88	24	3.1			
4	*0	*1.3	0	*0	*0	N	75	28	3.9			
5	*0	*1.2	0	*0	*0	O	63	26	0.7			
6	*0	*1.1	0	*0	*0		56	23	0.3			
7	*0	*1.0	0	*0	*0		51	20	0.1			
8	*0	*0.9	0	*0	*0		41	18	0			
9	*0	*0.8	0	*0	*0		34	17	0			
10	*0	0.4	0	*0	*0	R	29	18	0			
11	*0	0.2	0	*0	*0	E	26	19	0			
12	*0	0	0	*0	*0	C	26	16	0			
13	*0	0	0	*0	*0	O	23	14	0	N	N	N
14	*0	0	0	*0	*0	R	34	12	0			
15	*0	0	1.2	*0	*0	D	51	9.7	0	0	0	0
16	*0	0	8.4	*0	*0		53	8.8	0			
17	*0	0	6.8	*0	*0		46	8.0	0			
18	*0	0	6.3	*0	*0		51	13	0			
19	*0	0	*0	*0	*0		52	52	0			
20	*0	0	*0	*0	*0		48	108	0			
21	*0	0	*0	*0	*0	53	51	123	0	F	F	F
22	*0	0	*0	*0		42	45	108	0	L	L	L
23	*0	0	*0	*0		34	38	84	0	O	O	O
24	*0	0	*0	*0		29	30	63	0	W	W	W
25	*0	0	*0	*0	NR	30	24	45	0			
26	*0	0	*0	*0		38	21	32	0			
27	*0	0	*0	*0		46	17	23	0			
28	*0	0	*0	*0		52	16	17	0			
29	*0	0	*0	*0		59	15	15	0			
30	*2.0	0	*0	*0		68	15	12	0			
31	*2.0	—	*0	*0	—	71	—	11	—			—
Mean	0.1	0.4	0.7	0			43.7	32.4	0.7	0	0	0
Ac-Ft	8	23	45	0			2598	1990	44	0	0	0

Maximum Discharge C.F.S. For Water Year / Year of Record

Total Discharge Ac.-Ft. For 56-Calendar Year / 56-57 Water Year

Station located at lat. 40° 39' 49", long. 120° 48' 33", in S.E. ¼ sec. 2, T. 32 N., R. 10 E., on right bank approximately 17 miles northwest of Susanville, 2.5 miles above mouth. Pine Creek flows into Eagle Lake. Period of record July 1956 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 350

EAGLE LAKE NEAR SUSANVILLE - DAILY ELEVATIONS

Date	Daily Elevation in Feet (a)											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1		4.10	4.05	*4.15	*4.35	5.10		N	5.65	5.30	4.75	4.25
2		4.10	4.05	*4.15	*4.35	5.10		O	5.60	5.25	4.75	4.20
3	4.00	4.10	4.05	*4.20	*4.40	5.15			5.60	5.25	4.70	4.20
4	4.00	4.10	4.00	*4.20	*4.40	5.20		R	5.60	5.25	4.65	4.20
5	4.00	4.10	4.05	*4.20	*4.40	5.20		E	5.60	5.20	4.65	4.20
6	4.00	4.10	4.05	*4.20	*4.40	5.20		C	5.55	5.20	4.65	4.20
7	4.00	4.10	4.05	*4.20	*4.40	5.25		O	5.55	5.20	4.60	4.20
8	4.05	4.10	4.05	*4.20	*4.40	5.25		R	5.55	5.15	4.60	4.15
9	4.05	4.10	4.05	*4.20	*4.40	5.30		D	5.55	5.15	4.55	4.15
10	4.00	4.10	4.05	*4.20	*4.40	5.30			5.55	5.10	4.55	4.15
11	4.05	4.10	4.10	*4.25	*4.45	5.30		5.55	5.55	5.10	4.55	4.15
12	4.05	4.10	4.10	*4.52	*4.45	5.40	N	5.55	5.55	5.05	4.55	4.15
13	4.00	4.10	4.10	*4.25	*4.45	5.40	O	5.50	5.55	5.05	4.50	4.10
14	4.00	4.05	4.10	*4.25	*4.45	5.40		5.55	5.55	5.00	4.45	4.10
15	4.00	4.05	4.10	*4.25	*4.45	5.40		5.55	5.50	5.00	4.50	4.10
16	4.00	4.10	4.10	*4.25	*4.45	5.40		5.55	5.50	5.00	4.45	4.10
17	4.00	4.10	4.10	*4.25	*4.45	5.40	R	5.50	5.50	5.00	4.45	4.10
18	4.00	4.10	4.10	*4.30	*4.50	5.40	E	5.50	5.45	4.95	4.45	4.10
19	4.00	4.05	4.10	*4.30	*4.50	5.45	C	5.65	5.45	4.95	4.40	4.05
20	4.00	4.05	4.10	*4.30	*4.50	5.40	O	5.65	5.45	4.90	4.40	4.05
21	4.00	4.05	4.10	*4.30	*4.50	5.45	R	5.65	5.45	4.90	4.40	4.05
22	3.95	4.05	*4.10	*4.30	4.50	5.45	D	5.65	5.40	4.90	4.40	4.05
23	4.00	4.05	*4.10	*4.30	4.55	5.45		5.65	5.40	4.90	4.35	4.05
24	4.00	4.05	*4.10	*4.30	4.75	5.45		5.65	5.40	4.90	4.30	4.05
25	3.95	4.05	*4.10	*4.30	4.85	5.45		5.65	5.40	4.85	4.30	4.00
26	3.95	4.05	*4.10	*4.35	4.90	5.45		5.65	5.40	4.85	4.30	3.90
27	4.00	4.05	*4.15	*4.35	5.00	5.45		5.65	5.35	4.85	4.30	3.90
28	4.00	4.05	*4.15	*4.35	5.05	NR		5.65	5.35	4.80	4.25	3.95
29	3.95	4.05	*4.15	*4.35		NR		5.65	5.35	4.80	4.25	3.95
30	4.00	4.05	*4.15	*4.35		NR		5.65	5.30	4.75	4.25	4.00
31	4.10	—	*4.15	*4.35	—	NR	—	5.65	—	4.75	4.25	—

Station located at lat. 40° 36' 45", long. 120° 43' 32", in S.W. ¼ sec. 22, T. 32 N., R. 11 E., on east shore approximately 14 miles northwest of Susanville. Figures listed are gage heights at 12:00 Noon to nearest 0.05 foot. Period of record October 2, 1956 to date. Records computed by Department of Water Resources.

(a) 0.00 foot gage height equals 5095.74 feet U. S. Geological Survey datum.

* Estimated

PLATES

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING

LOCATION OF SURFACE WATER MEASUREMENT STATIONS

1957

SCALE OF MILES

20 0 20 40

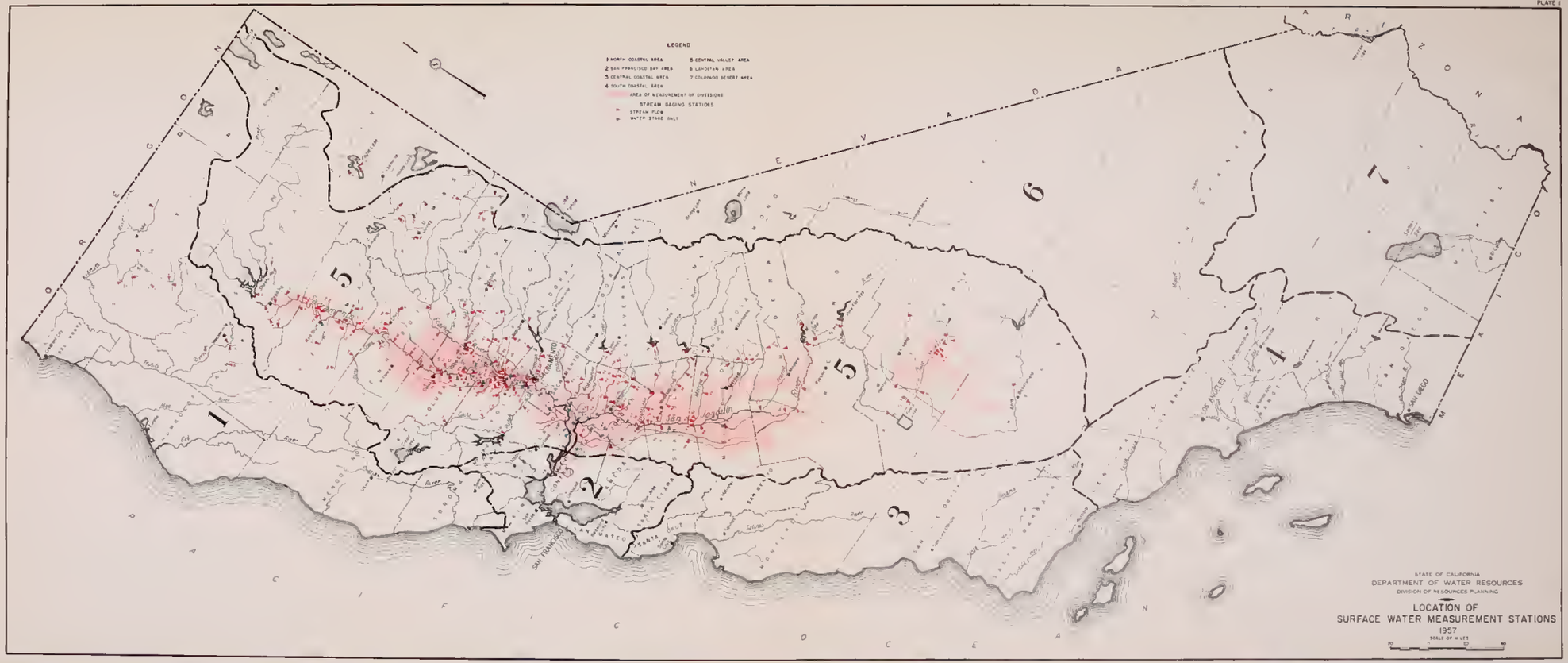


PLATE I
LEGEND
1 NORTH COASTAL AREA
2 SAN FRANCISCO BAY AREA
3 CENTRAL COASTAL AREA
4 SOUTH COASTAL AREA
5 CENTRAL VALLEY AREA
6 LAHONTAN AREA
7 COLORADO DESERT AREA
AREA OF MEASUREMENT OF DIVERSIONS
STREAM GAGING STATIONS
STREAM FLOW
WATER STAGE ONLY
OREGON
NEVADA
ARIZONA
MEXICO
PACIFIC OCEAN
SAN FRANCISCO
SACRAMENTO
SAN JOAQUIN
LOS ANGELES
SAN DIEGO
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
LOCATION OF
SURFACE WATER MEASUREMENT STATIONS
1957
SCALE OF MILES

PLATE 2

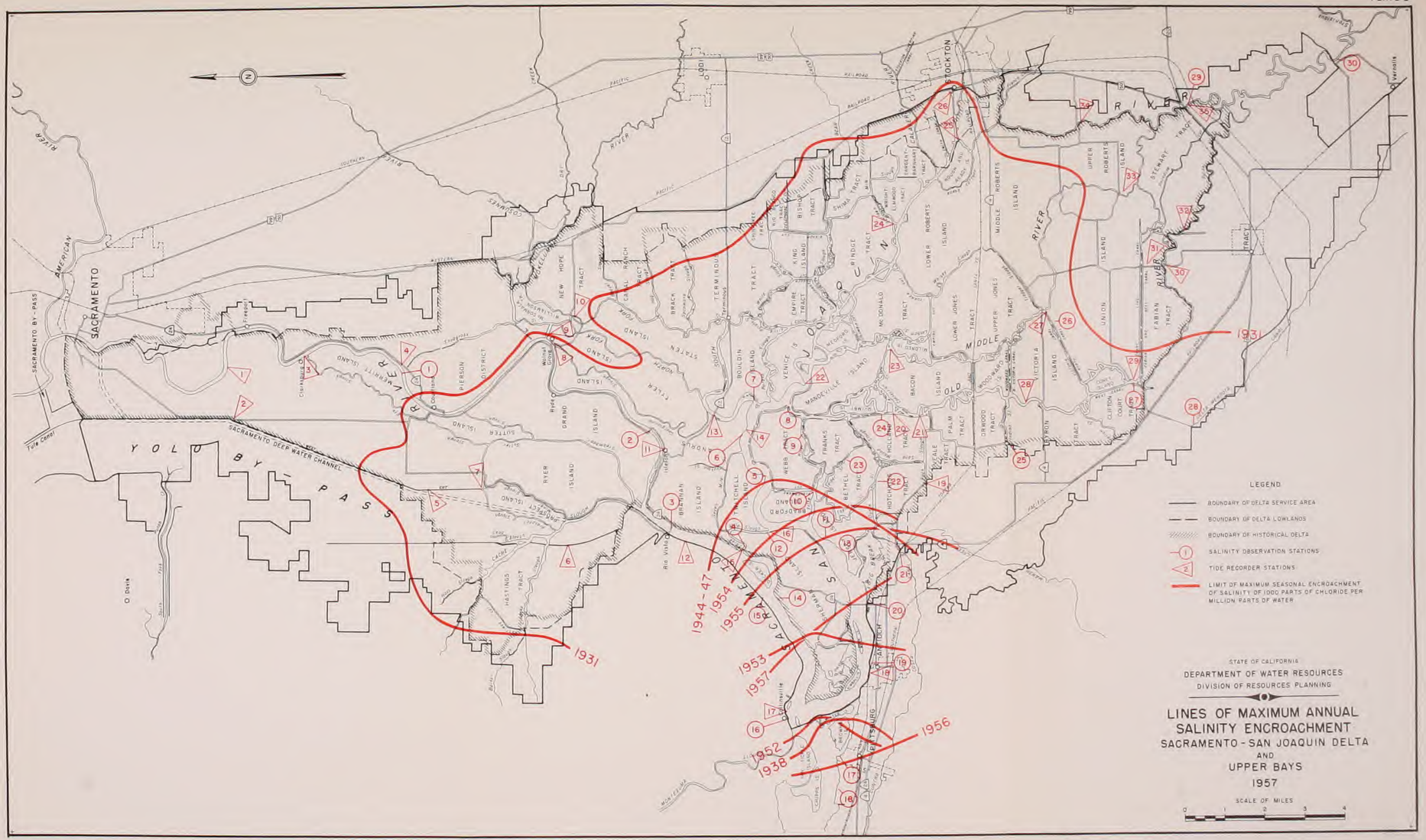
TIDE STATIONS

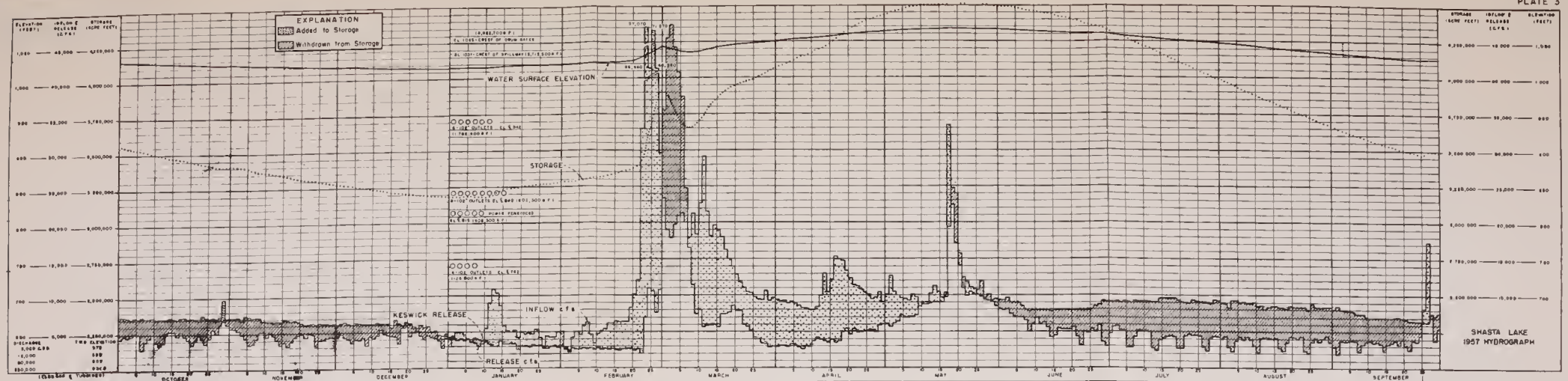
Station Number	Station
1	Freeport
2	Lisbon
3	Clarksburg
4	Snodgrass Slough
5	Liberty Island
6	Lindsay Slough
7	West Cut at Five Points
8	Walnut Grove
9	Delta Cross Channel
10	New Hope
11	Isleton
12	Rio Vista
13	Georgiana Slough
14	San Andreas Island
15	Threemile Slough (Sacramento)
16	Threemile Slough (San Joaquin)
17	Collinsville
18	Antioch
19	Rock Slough
20	Old River at Holland Tract
21	Old River near Rock Slough
22	Venice Island
23	Middle River at Bacon Island
24	Bradge
25	Burns Cut-Off
26	Stockton
27	Middle River (Borden)
28	Old River at Mansion House
29	Old River at Clifton Court Ferry
30	Old River near Tracy Road Bridge
31	Grant Line Canal
32	Tom Paine Slough
33	Middle River (Mowry Bridge)
34	Brandts Bridge
35	Mossdale Bridge
Off Map	Benicia

SALINITY STATIONS

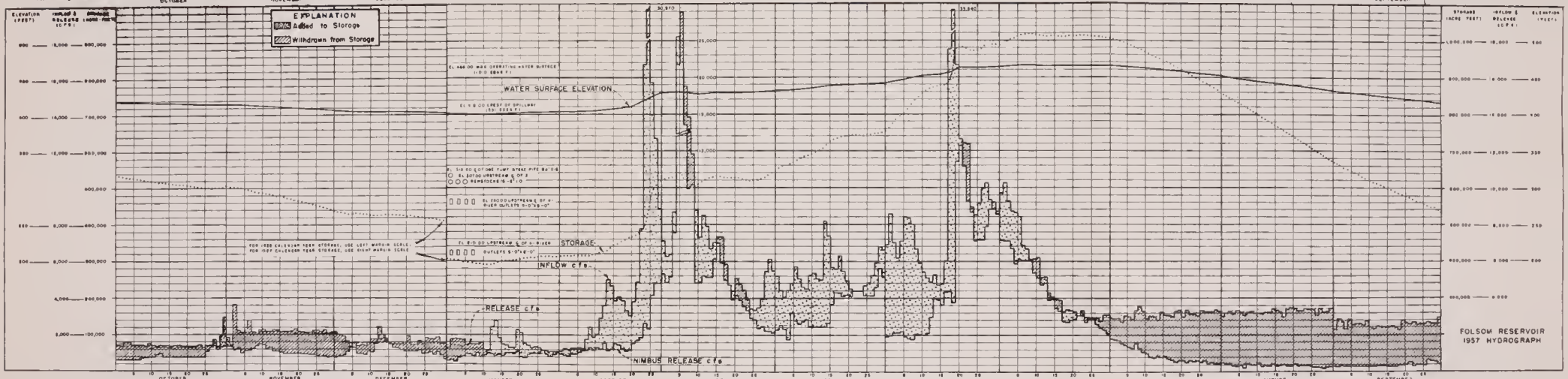
Station Number	Station
1	Snodgrass Slough
2	Isleton Bridge
3	Rio Vista Bridge
4	Threemile Slough Bridge (Sacramento)
5	Dutton Point
6	San Andreas Landing
7	Central Landing (Opposite)
8	Webb Point
9	Webb Pump
10	Webb Ferry
11	Jersey Island
12	Threemile Slough (San Joaquin)
13	Jersey Point
14	Emmaton (Opposite Toland Landing)
15	Toland Landing
16	Collinsville
17	Pittsburg
18	C and A Ferry
19	Antioch
20	Millers Harbor
21	Contra Costa Canal
22	Dutch Slough
23	Piper Slough
24	Holland Tract
25	East Contra Costa Irrigation District
26	Victoria Canal
27	Clifton Court Ferry
28	Tracy Pumping Plant
29	Mossdale Bridge
30	Vernalis
Off Map	Grandview
Off Map	Point Davis
Off Map	Point Pinole
Off Map	Point Orient

Note: For description of station locations see Table 341 for Tide Stations and Table 238 for Salinity Stations.

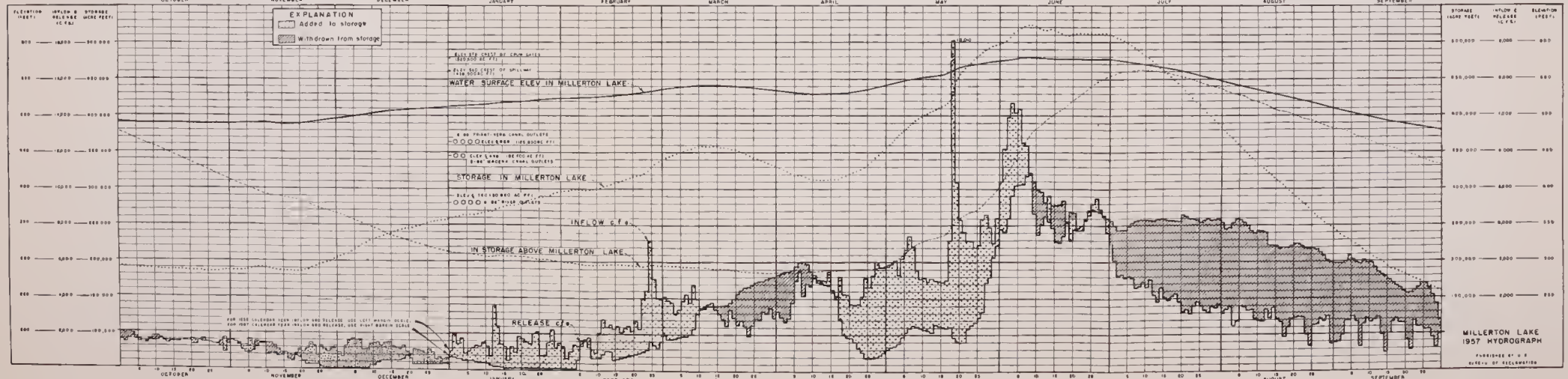




SHASTA LAKE
1957 HYDROGRAPH



FOLSOM RESERVOIR
1957 HYDROGRAPH



MILLERTON LAKE
1957 HYDROGRAPH

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